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THE FOCAL SPOT

Tenth Annual

DOMINION CONVENTION NUMBER

CANADIAN SOCIETY OF RADIOLOGICAL TECHNICIANS

SCIENTIA ET MORES

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News Items from the Provinces

ALBERTA DIVISION
C.S.R.T.

CALGARY SECTION

The regular monthly meetings for the Fall and Winter term of '52 started in Calgary on September 16th at the Colonel Belcher Hospital. The attendance and enthusiasm was at a peak for the Society (it must be that some of the enthusiasm has rubbed off from the energetic C.S.R.T. Directors and Official Delegates who were in attendance at the Convention held in Calgary early in September). We sincerely hope that this interest in the Calgary Society keeps up.

Now for a little news localy. Our new students who are well into the study groups are Phil Boese, Lois Wolfe, Diana Pasti, Roselle Schmidt, Ellen Borup, Nora Holroyd, and Mary Partridge. We hope to hear more about these young ladies real soon.

There is gloom in Calgary now, for Miss Doreen Calvert has travelled north to Edmonton to attend the University of Alberta. All success in your studies, Doreen, and hurry back.

To all the old friends of Frances Shaw, here is some very happy news. Miss Shaw took a trip down the middle of the aisle and at the end of the aisle was a fine chap, Harold Newing. So congratulations and all that to Frances and Harold.

Looking over at the Calgary General Hospital there are some changes there too. Miss Marsha Geary has left for the Hanna Municipal Hospital and Miss Jean Hardy from Vancouver General Hospital has replaced Marsha.

The weather out in cow-town has been really fine for this time of year, so we had a little weiner roast on the 24th of September out at

Continued overleaf

EDMONTON

The first monthly meeting of the Edmonton Society of Radiological Technicians was held at the Misericordia Hospital on September 10th.

The program consisted mainly of the election of officers for the coming year. Those elected were:

President—Lorraine Barbeau.

Vice-President—Bill White.

Secretary-Treasurer—Doris Gregory.

Social and Finance Committee—Eileen Kerr, Chairman; Ruth Solowan, Pat Berry, Joan Dittrich, Doreen Thompson, Dorothy McDonald.

Program Committee—Helen McQuaig, Chairman; George Hall, Russell McQueen.

Banquet Committee — Henrietta Henderck, Chairman; Doris Anderson, Frances Vosburgh, Phyllis Kruhlak, Lois Gordon.

Reporting Committee—Frances Vosburgh, Betty Suchotzke.

It looks like a good year ahead for all of us.

Following the naming of officers, Dr. Marshall Mallett gave a talk on "Ethics." To conclude the evening lunch was served by the girls from the x-ray department of the Misericordia Hospital.

It seems that all members of the Edmonton Society who attended the Dominion Convention at Calgary had a very enjoyable as well as an informative time.

Of special interest to those who were present was a paper, "Obstetrics for the X-Ray Techni-

Continued overleaf

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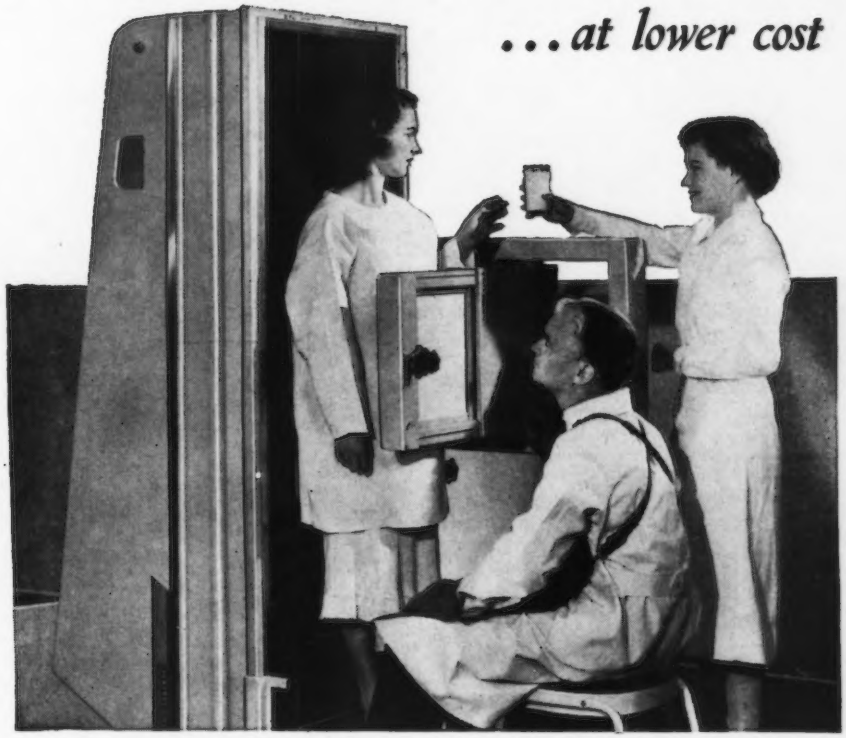

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GENERAL ELECTRIC

Calgary—continued

Miss Shaw's. Pardon me, Mrs. Newing's. A grand time was had by all. Mrs. Ethel Yerex with her grand voice and Dave Enns with his accordion supplied the music.

Before I forget! Memo: To the Registrar, C.S.R.T. 1973:

Please register a new Technician at the Colonel Belcher Hospital in Calgary under the name of Murray Herbert Welch." The infant son of Marge and Johnny Welch, a young couple Calgary owes much to in connection with the recent Convention. I am glad to report that Mother and Father are doing fine!

This is about all from here for now. But to all those grand people, whom we in Calgary had the pleasure of meeting at the Convention, and to all those who could not attend the Convention, I would like to quote our good Mayor Don MacKay in the civic luncheon address, when he said: "The latch string is always out." So won't you drop over some time. We would love to see you.

Bye for now.

—GEORGE GRAHAM, R.T.,
Sub-Editor.

Edmonton—continued

cian," given by Dr. M. Mallett.

September 16th saw the student technicians back at the Misericordia Hospital to begin lectures again. We have a much larger class this year which is due to increased student registration. A hearty welcome to you all.

We are lucky again this year in having as our first lecturers, Dr. Mallett—Anatomy, and Mr. Ginger—Physics.

On October 6th everyone piled into cars and headed out to the Oliver Provincial Institute for the second monthly meeting of this season.

After a tour of the x-ray department and the new wing of the hospital, which was conducted by George Hall, technician at Oliver, we were taken back to the main building for our meeting. Dr. MacPherson gave a short talk on "Development of Mental Hospitals" which was extremely interesting to all present.

After the business part of the meeting, we were served a delicious lunch by the Oliver Hospital.

—BETTY SUCHOTZKE, R.T.
Sub-Editor.

BRITISH COLUMBIA DIVISION C.S.R.T.

VANCOUVER BRANCH

The first meeting of the 1952-53 season was held in the B.C. Cancer Institute on Thursday, September 18th, with Miss Joan Goodall in the chair. A very poor response of members gave us one of the poorest attended meetings we have had for some time. After the business was completed reports on the Calgary Meeting were given by Mr. W. Q. Stirling, Miss Mary McMillan and Mr. Bill Brown. Mr. Stirling and Mrs. Hood wore the ten gallon hats which were presented to them in Calgary and came in for a lot of mild banter. Refreshments were served as usual and after that we were taken on a tour of the wonderful new Cancer Institute. We were privileged to be able to see the new Cobalt Therapy in action through the kindness of Dr. Batho of the Institute. This was a revelation to all of us. The tremendous size of the housing and the ease of manipulation were a source of interest. Vancouver can be justly proud of this latest addition to its medical services as the building is modern and most artistically decorated. Everything possible for the comfort of the patient and ease of operation for the technical staff has been provided. Truly a monument to medical progress and science.

The October meeting was held on Thursday, October 9th, with Miss Barbara Simpson in the chair. Miss Goodall was on duty at the official opening ceremonies of the new Cancer Institute Building. Business did not take up very much time and was soon completed. Arrangements are under way to hold a party some time in the early part of December. We intend at this meeting to honor the students who passed during the year. Watch for later notices in Grid Lines.

The speaker for the evening was Dr. McFee of the Vancouver General Hospital Staff. Dr. McFee showed over a hundred slides on differ-

Continued on page 154

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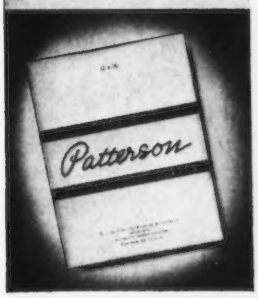

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BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY

B.C.—from page 152
ent types of pathology in various parts of the body. The slides were of excellent quality and Dr. McFee explained each one in clear cut crisp sentences which were easy to understand. With an odd joke on the side the lecture proved to be one of the best we have had in many moons. The speaker was introduced by Miss Pat Rogers and thanked on behalf of the members by Miss Joyce Gordon. We are looking forward to another visit early next year from the same speaker. About thirty members attended which was far short of what we hope to have at meetings. Those members who were UNAVOIDABLY detained missed a very, very enjoyable meeting.

VICTORIA BRANCH

The first meeting of the Victoria Branch was held in September with Mr. Fred Barker pinch-hitting for the president, who was on vacation. The meeting dealt principally with business. It was decided to hold meetings in future on the second Thursday of the month to conform with the Vancouver Branch and in order to get notice in Grid Lines in time to notify the members.

The second meeting was held on Friday, October 3rd, when the members of the branch travelled up to Nanaimo to be guests of the technicians in that city. This usually proves to be a highlight of the year for the Victoria members but up to the present time no report has been received on what transpired.

Congratulations to Mr. and Mrs. Howie Tait of Kamloops on the birth of twin daughters. A double twin ceremony.

Mrs. Kissinger, neé Joan Ashwin, is also the proud mother of a daughter. Congratulations.

Good luck to the following students who have commenced training.

At. St. Joseph's: Miss B. H. Lidiarel, Miss N. A. Burdette, Miss E. R. Kirkland, Miss B. A. Rose, Miss B. R. Foster, Miss A. M. Rice, Miss A. C. Mottram, and Mr. R. Thacker.

At Royal Jubilee, Victoria: Miss Laval and Miss M. Jessup.

At Shaughnessy Hospital, Vancouver: Miss V. McCullough and Miss C. Coughlan.

Miss Ray Tilley, formerly of England and South Africa, has started to work at the new Burnaby Hospital. Miss Aune Prugi, formerly of Ontario, is now working at the Medical Clinic in Vancouver. Both girls have been to our meetings and we welcome them to the West.

Miss Lorene Rogers, formerly of the B.C. Cancer Institute, was married to Mr. McCready in Edmonton on September 27th. Best wishes.

Ever since the beginning of July the people of British Columbia have been living in the Banana Belt. Only about four days rain in three months. Who wants to go to California to live?!

—W. Q. STIRLING, R.T.,
Sub-Editor.

MANITOBA DIVISION
C.S.R.T.

Several changes have taken place since the adjournment last spring; and evidently an eventful term is in the offing.

Congratulations are extended to all the successful candidates of the May examinations. The following are the recent R.T.'s: Miss Virginia Aukland, Mr. Lyall Davidson, Miss Vickie Germen, Miss Aurene Merrill, Miss Audrey Delorme, Miss Therese Bazin, Miss Alida Dupuis, Miss Dephine Johnson, and Mr. Clarence Weiss. There are eight November Manitoba candidates preparing to write their exams. Good luck to them.

There have been several changes of positions among our fold which are recorded as follows: Miss Donna Gene Cathcart, formerly at Misericordia Hospital, now at the Regina General Hospital. Miss Margaret Olson, formerly at Grace Hospital, now at Norway House. Miss Cora Courchene of the Hollenberg Clinic, left on October 1 to reside in New Westminster, B.C. Miss Audrey Delorme of Dr. Roy P. Brown's office has left on October 1 for a short visit in Edmonton and then to Vancouver where she will reside. Miss Margaret Norbery, formerly of Misericordia, is now at the King Edward Hospital and was married on September 6th and is now Mrs. Wm. Birtle. Miss M. Drinkwater, for many years at the King Edward,

Continued on page 156

RADIOGRAPHIC TECHNIQUE

1

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Man.—from page 154
was married in May, and is now Mrs. J. E. White. They reside in Brandon. Miss Janet Porte of Grace Hospital was married on September 27th to Mr. John Groves of Edmonton. They reside in Winnipeg. Mr. Clarence Weiss of St. Joseph's Hospital was married in June. Miss Janet Steley has returned from Regina and is now with Drs. Macpherson and Childe. Miss Margaret Palmer, formerly on the staff of the Winnipeg Clinic, is now living in Hamilton. Miss Patricia Hamilton, formerly of Misericordia Hospital, is now with Drs. Wheeler, McCulloch and Stuart. Mr. Des. Butler is the proud father of a baby girl. (Good man, that Des!) Miss Rosalie Fox left Mount Carmel Clinic and is now with Drs. Gutman, Lerner, and Rossen. Mr. P. R. Elkin, formerly with the Sanatorium Board of Manitoba, is now at Hamiota Hospital. Mr. W. L. McDougall, also formerly of the Sanatorium Board of Manitoba, is now at the Langenburg Union Hospital, in Saskatchewan.

Nine Manitobans attended the recent Convention in Calgary. They reported a wonderful time, and wish to take this opportunity to extend their sincere thanks to the hard working Alberta Technicians for "one of the best conventions yet."

Dr. R. A. Macpherson

We are extremely happy to convey our convey our congratulations and best wishes to the Chairman of the C.S.R.T. Board of Examiners, Dr. R. A. Macpherson, on his recent appointment.

Dr. Macpherson has been promoted to Professor and Chairman of the Department of Radiology in the University of Manitoba's faculty of Medicine.

He succeeds Professor Digby Wheeler who recently resigned. Besides heading the department, he is Director of Radiology at the Winnipeg General Hospital, past president of the Winnipeg Medical Society, vice-president of the Canadian Association of Radiologists, district counsellor for the Radiological Society of North America, a member of the American College of Radiology and a certified specialist of the Royal College of Physicians and Surgeons of Canada.

Dr. Macpherson is a highly esteemed counsellor of the C.S.R.T., and is exceedignly valuable to the functioning of the Society. We are most grateful to him for his admirable service and rejoice immensely upon his well-deserved appointment.

The Manitoba Division meetings for this season will be initiated on the 28th of October. A complete report on the Calgary and Chicago Conventions will be presented by Mr. Wm. Doern and Mr. Des. Butler, respectively.

—W. F. GAFKA, R.T.,
Sub-Editor.

NEW BRUNSWICK SOCIETY OF X-RAY TECHNICIANS

The good news that the 1954 Annual Convention of the C.S.R.T. is to be held in Saint John was announced by our President, Helen McKinnon, following the Calgary meeting.

We want to assure all technicians that New Brunswick is going "all out" to exceed the Western hospitality of which we have heard so much. Already a hard working and efficient committee has plans well under way.

So, Technicians, plan your vacations now for 1954 and come enjoy the Atlantic sea breezes in Canada's oldest incorporated city.

The regular meeting of the N.B.S.X.T. was held Saturday night, October 4th, at Lancaster Hospital, with the President, Miss Helen McKinnon, presiding. An executive meeting was held prior to the general business meeting.

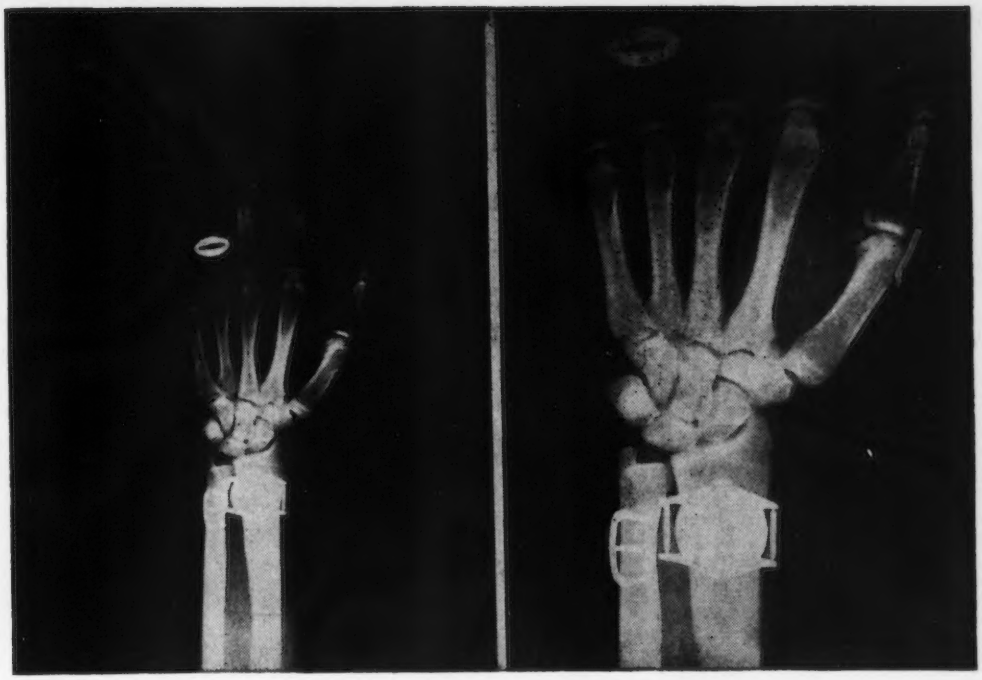
Two new members were accepted as student members in the Society, Margot Macaulay, student at St. Joseph's, and Audrey Creamer of Charlottetown Hospital, P.E.I.

Guest speaker for the evening was Dr. E. A. Petrie, radiologist at St. Joseph's Hospital. Dr. W. A. Farrell, radiologist at Victorai Public Hospital, Fredericton, also attended the meeting.

Following the meeting refreshments were served by the technical staff of the X-Ray Department of Lancaster Hospital.

The 1952 graduates of St. Joseph's are all well established in their new positions. Patricia Crowley is at Moncton Tuberculosis Hospital;

Continued on page 159



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N.B.—from page 156

Ann Hickey at the Hotel Dieu in Moncton; Clare-Marie McGrath at the County Hospital in Saint John; Shirley McIntyre at the James Dunn Memorial in Bathurst; and Joan Meinert at the Hotel Dieu in Chatham.

We all wish the girls much luck in their well chosen field.

Miss Gertrude O'Sullivan, R.T., a 1950 graduate of St. Joseph's and formerly at James Dunn Memorial, has moved to Halifax and is now on staff at the Halifax Infirmary.

The sound of wedding bells is prevalent these days. Miss Althene McConnell of St. Joseph's Hospital is to be the happy bride of Mr. Earl Cropley on November 8th. Every one of us joins together in wishing Althene and Earl much luck and happiness in their married life.

—HELEN CAMERON, R.T.,
Sub-Editor.

NOVA SCOTIA DIVISION C.S.R.T.

With many of our members taking late summer vacations this year, the fall program in the Halifax area is a little late getting started. The Executive members in this area met on October 7th and reviewed business arising from Mr. Perry's very excellent report of the C.S.R.T. Meeting. The first general meeting of the Halifax branch will be at the Infirmary on October 16th. The November meeting will be at Camp Hill Hospital.

Some of our good friends have heard the call of the Wild West (or was it the call of duty?). Surg.-Cmdr. John Fleming, R.C.N.V.R., is now in charge of radiology at H.M.C.S. "Nadeau," Esquimalt. Dr. Peter Loder, lately Resident at the Victoria General Hospital, has also left to practise in British Columbia. Late in June a surprise party invaded the home of George Debonnaire to present him with a travelling bag and all good wishes on leaving Halifax. The Debonnaires are now settled in Winnipeg, where George looks after the Keleket machines .

We welcome three new members —Miss Gertrude O'Sullivan (N.B.S.X.T.), who is now on the staff of Halifax Infirmary; C/PO Guy Stanford, who has been transferred back here after three years "West"; and Miss Emily Edstrom of Glace Bay, now at Dr. Wallace Roy's office in the Medical Arts Building. Dr. Roy is travelling these days, having taken on the hospitals in Yarmouth and Bridgewater for weekly visits; they formerly had no such radiological supervision. There are also no R.T.'s south of Bridgewater and Liverpool—yet.

Congratulations to the Alberta Division on their Convention effort—reported to be the most colorful to date! We are all now devising ways and means to "meet you in Toronto" . . . the skeleton staffs at Convention time are going to be really skeletal, if all our members' dreams come true. However, service is the word, and some must stay on duty.

—JEAN UNDERWOOD, R.T.,
Sub-Editor.

ONTARIO SOCIETY OF RADIOGRAPHERS

This is the time of year that most summer vacationists have completed their holidays, and the different Sections throughout the Province are working hard at planning more and better Sectional Meetings. By the way, we expect a Northern Section Group to swing into action soon.

Mr. Wm. Burns of the Medical Arts Building, Toronto, c/o Dr. Singleton, is the new students' secretary for the present term. Please send all correspondence pertaining to students to the above address.

It would be expected that with an active membership of 254, we could do better than to send our delegate to the C.S.R.T. Convention with 32 proxy votes. We as technicians must follow this practice with more interest. It is the duty of all members to register early each year; make sure your name appears on the registry qualifying you for this vote. It is then your

Continued on page 201

The Focal Spot

Journal of the Canadian Society of Radiological Technicians

Volume 9 TORONTO 1952 NO. 4 *Issue No. 36*

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The Focal Spot

Journal of the Canadian Society of Radiological Technicians

Volume 9 TORONTO 1952 NO. 4 Issue No. 36

Radiography of the Lumbar Spine

By DAVID C. SAGE, R.T.
McGregor Clinic, Hamilton, Ont.

A SURVEY of our last 300 spine x-ray examinations revealed the significant fact that examination of the lumbar region had been requested 180 times, or in 60 per cent of the total number of examinations. Suffice it to say, then, that the importance of this area to the doctor warrants only the best effort on the part of the x-ray technician.

The purpose of this paper is to outline a routine which has proved itself in obtaining good lumbar spine films with reasonable consistency.

Anatomy and Terminology

Although much has already been written in other papers to describe the anatomy of the lumbar spine, a quick review may serve to reacquaint us with the structures we will attempt to show later on.

The five lumbar vertebrae are situated between the twelfth dorsal vertebrae above and the sacrum below. They are the largest non-fused vertebrae of the spinal column, increasing in size from the first to the fifth. The lumbar curve is convex anteriorly, and the individual vertebral bodies are concave anteriorly, being separated from each other by a thick cartilaginous pad known as a disc. The fifth lumbar vertebra articulates with the sacrum to form the lumbosacral joint (Fig. 1).

Presented at the annual meeting of the American Society of X-Ray Technicians, May 29, 1952, Chicago, Illinois. This paper won the first NEMA Award.

We are familiar with such terms as: (1) a body, (2) a neural arch and associated

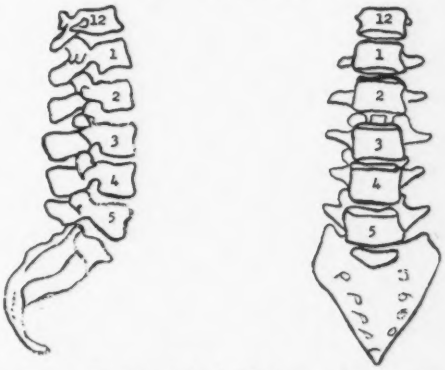


Fig. 1. Drawing of the five lumbar vertebrae showing the lateral and anteroposterior views.

processes, i.e. the superior articulating processes, the inferior articulating processes, the transverse processes and the spinous process, (3) the pedicles, and (4) the laminae (Fig. 2).

The Patient

Too often a time schedule is followed when doing certain x-ray examinations, and it is undoubtedly quite possible to complete a lumbar spine in eight to ten minutes. This, of course, gives little or no time for preparation and comfort of the patient or a conversation to gain important information which will decide the proper positioning and radiographic technique. Through the expenditure of a few extra seconds, and by sharing a friendly interest with the patient, the

technician can win his complete confidence and gain co-operation for the job to follow. Certain questions may be used routinely, once established.

Clothing

In our department the patient, when received, is clothed in a small, knee-length gown with the closing to the back and a large terry cloth coat. It is preferred that shoes not be worn, especially if the heels are leather.

Positioning

The AnteroPosterior Coned Lumbosacral Area (Fig. 3).—With the patient seated on the side of the table, the outer coat is removed and thrown over the lap and legs. He is then asked to sit upright, lengthwise with the table.

With the shoulders supported from behind, the patient is lowered until the shoulders rest upon two pillows. A large bolster is placed under the head. The open-backed gown which affords clear visibility of the patient's back, has a twofold purpose: (1) scoliosis may be noted which will determine whether right or left lateral views are taken; (2) one is more sure of having the spine centered to the table.

Fig. 3. The patient lying in position for the anteroposterior angled view of the lumbosacral area and a radiograph of this projection.

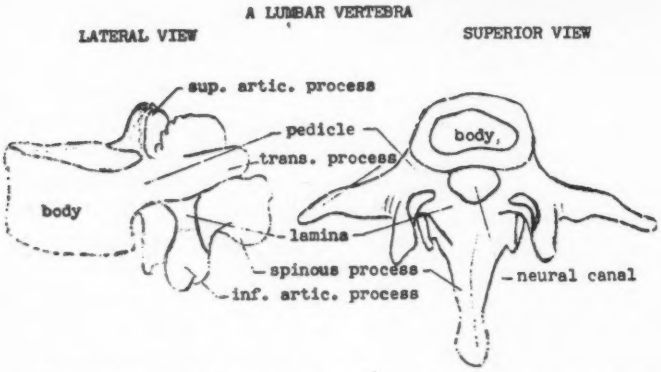


Fig. 2. Drawing of a lumbar vertebra in the lateral and superior views with names indicating the parts.

To add to the patient's comfort a small bolster is also placed under the knees, allowing them to flex slightly.

Moderate extension is applied to take out any unnatural curve or twist in the spine. This may be done by pulling from the legs or arms along the axis of the table, with the patient relaxed.

It should be ascertained that the iliac crests are an equal height from the table top and that both shoulders are resting evenly on the pillow.

Using a small cone, the central ray is projected through a point 4 to 6 inches (depending on the size of the patient) below the iliac crest to a 10- by 12-inch cassette using Bucky technique. Cephalad tube angulation will vary from a minimal degree for the "flat" spine and pelvis, to a more acute angle for the curved or arched spine. A hand placed under the small of the back will help to determine this angle. The male sacrum is normally flatter than the female, and therefore would require less angulation. Clinical diagnosis will also determine angulation.

If a "routine" examination of the sacroiliac joints is desired, the rays should be projected at right angles to the upper sacrum. In some cases greater angulation may be used to produce an elongated view of the sacroiliac joints.

The Antero-Posterior Lumbar Spine (Fig. 4).—A few minor changes will position the patient correctly for this projection.

The knees are well flexed, and a sandbag is placed under the toes. A rubber or foam mat under the heels will prevent the feet from sliding down the table, especially if shoes are worn.

If stereoscopic views are required, the first exposure is made with the central ray, iliac crest and centre of cassette in line. The second exposure is made with the tube displaced toward the head and angled caudad to cover the film. A compression band is used to advantage in reducing the antero-posterior measurement of the obese patient.

The Lateral Lumbar Spine (Fig. 5).—Previous observation and conversation with the patient will now determine the lateral position, right or left. If the patient has a comparatively straight spine but

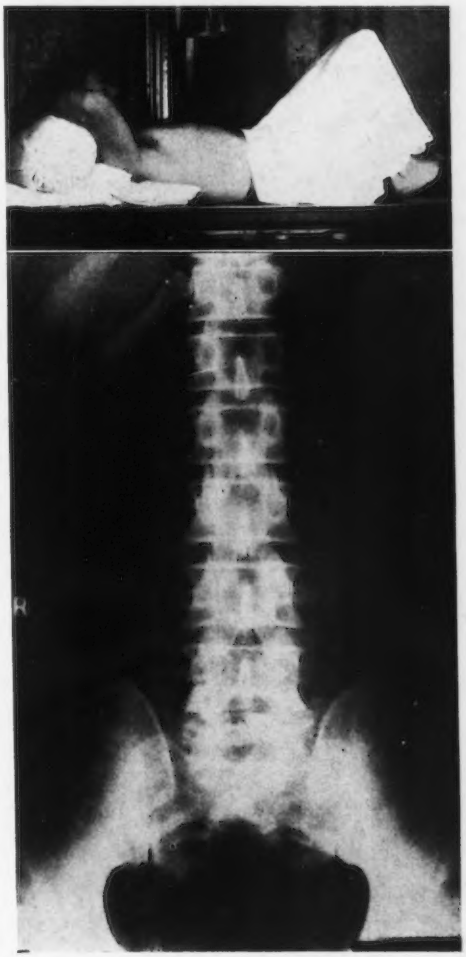


Fig. 4. Patient lying in position for the 14 by 17 antero-posterior lumbar spine and radiograph.

complains of pains going down one leg, then he is asked to lie on the side of the pain. If a curvature has been demonstrated, he will lie on the side of the convexity.

The patient is placed in a true lateral position with his back toward the side of the table at which one is working.

The line of the vertebral bodies, which is about 3 inches from the patient's dorsal surface, should be aligned with the centre line of the table.

A large bolster is placed between the flexed knees to offset forward rotation of the free hip.

One pillow is folded and placed under the head.

The arms are flexed to add support to the upper portion of the body.

A 14- by 17-inch cassette is centred to the iliac crest and the tube is displaced toward the head at a 36-inch distance. The tube is then angled back to cover the film, the degree of angulation dependent upon the spinal curve. One has but to view the bumpy line caused by the spinous processes or palpate along this line with the tips of the fingers to determine the degree of angulation.

Fig. 5. Patient lying in position for the 14 by 17 lateral lumbar spine and radiograph.

Helpful Hints for Lateral Lumbar Spines

1. The upper portion of the lumbar spine may be elevated to increase the curvature of a straight spine by allowing the free arm to reach over the patient's head.

2. For the very straight spine, such as one may find in large, muscular individuals, the focal film distance is increased to 40 inches and the central ray projected through the third lumbar vertebra perpendicular to the table top.

3. Complete expiration will raise the diaphragms, and the abdominal soft tissue density thus provided will lessen the tendency to burn out the lower dorsal and upper lumbar area.

4. One should be sure the cathode end of the tube is toward the lumbosacral area in order that maximum penetration due to "anode heel" effect may be utilized in the thicker lumbosacral area.

5. A 14- by 17-inch high speed screen cassette is invaluable for the lateral lum-

bar view, as it will allow for a decrease in time by approximately 50 per cent, using 85 kv.p. technique.

Should a detailed lateral of the lumbosacral disc space be required, one should use a small cone and project the central ray through the L 5 - S 1 interspace with the tube angled according to the curve of the spine and tilt of the sacrum (Fig. 6).

Fig. 6. Patient lying in position for a detailed lateral view of the lumbosacral disc space and radiograph.

A narrow shouldered, broad pelvis type patient, as is frequently seen in females, will cause the sacrum to tilt toward the head. This is suitable to our purpose of making use of the diverging rays to open each disc space. A broad shouldered, narrow pelvis type patient, more frequently seen in males, may cause the sacrum to tilt toward the feet. It will then be necessary either to angle the tube cephalad to open the L 5 - S 1 interspace, or to extend the feet and place a bolster under the lower legs to elevate the sacrum (Fig. 7).

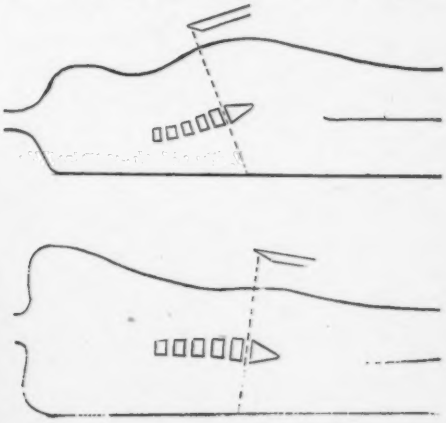


Fig. 7. Sketch showing the angle of the sacrum in two different types of individuals. (Above) Female type sacrum. (Below) Male type sacrum.

The Oblique Lumbar View.—Oblique views of the lumbar spine are taken to demonstrate defects through the interarticular isthmuses when a spondylolisthesis is suspected, and to demonstrate joint spaces between the articulating facets. Both left and right obliques are taken, the left oblique to show the isthmuses and facets of the right side, the right oblique to show the isthmuses and facets of the left side.

Successful studies have been made with the patient in both the postero-anterior and anteroposterior positions. For our purpose, the posteronanterior position would be the more natural to asume, would require no building-up of the shoulder and hip as compared to the anteroposterior, and therefore would save time, offset motion and provide greater comfort for the patient.

Fig. 8. Patient lying in position for the oblique lumbar view and radiograph.

For the left oblique view, the patient lies prone on the table with the left arm extended along the side of the body, the right arm flexed in front of the head and the right knee flexed and extended laterally. A small pad is placed under the knee. The right hip is rotated through an angle of 40 degrees from the table. As may be seen in the photograph, the shoulders and upper portion of the body are not rotated as much as the hips (Fig. 8).

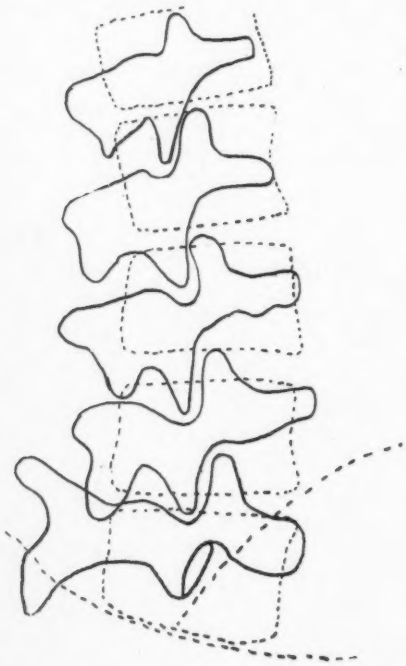


Fig. 9. Sketch showing the position of the vertebral structures in the oblique view, illustrating the "Scottie dog" effect.

An angle aligner, as shown, to measure the desired angulation at the level of the upper sacral area, is a good guide to consistent rotation.

The patient is offset to the left so that a line drawn through the spinous processes is two inches from and runs parallel to the centre line of the table. The tube is angled caudally approximately twenty degrees and the central ray is projected through the fourth lumbar vertebra. The degree of angulation varies as to the curvature between the sacrum the lumbar

spine. The more extreme type of curve presents a problem in getting uniform oblique views of all vertebrae. The problem may be alleviated by placing a pad under the patient at the mid-lumbar region to reduce the curve, or it may be necessary to do a separate view for the L 5 - S 1 region.

The same technique is applied for the right oblique view.

It is not difficult to determine from looking at an x-ray of an oblique view whether the patient has been properly positioned. It is usually more difficult to determine the necessary alterations. As a guide, we can look for the image of a Scottie dog outlined with each vertebra. The transverse process represents the mouth, the superior articulating process the ears, the inferior articulating process the front legs, and the lamina and spinous process the neck, body and hind legs.

The articulating facets should be seen in the midline of the vertebral bodies. If they are closer to the anterior portion of the vertebral bodies it would indicate insufficient rotation of the patient. Should they appear nearer the posterior margin of the vertebral bodies less rotation is required (Fig. 9).

Summary

1. Development of the above routine simplifies lumbar spine procedure and enables us to obtain consistently high quality radiographs.

2. By taking advantage of the natural curvature of the lumbar spine in the lateral position, a 36-inch focal film distance, the anode-heel effect, complete expiration and high kilovoltage, the lower dorsal vertebrae, all of the lumbar vertebrae, and the sacrum may be clearly demonstrated on a single 14- by 17-inch film.

Technical Factors

The following techniques are average for the thickness indicated and will vary with tube angulation, also from one department to another.

Projection	Thickness	mas	kv.p.	Distance	Remarks
A-P lumbosacral area	20 cm.	225	65	36"	
A-P lumbar spine	18 cm.	225	65	36"	
Lateral lumbar spine	27 cm.	125	85	36"	Use high speed screen
Detail lumbosacral disc space	31 cm.	400	85	36"	Measuring thru hips
Obliques	22 cm.	300	65	36"	

BIBLIOGRAPHY

1. Brailsford, James F.: The Radiology of Bones and Joints. Ed. 4. London: J. and A. Churchill Ltd., 1948.
2. Ferguson, A. B.: Roentgen Diagnosis of the Extremities and Spine. New York: Paul B. Hoeber, 1939.
3. Grant, J. C. Boileau: The Atlas of Anatomy. Ed. 2. Baltimore: The Williams and Wilkins Company, 1947.
4. Gray, Henry: Anatomy, Descriptive and Applied. Ed. 26. London: Longmans, Green and Co., 1935.
5. Hardman, G. L.: Guide to positioning. Radiography, (April) 1947.

The Odontoid Process

AN ACCURATE A.P. PROJECTION

By LEONARD A. LUDWIG, R.T.
Division of Tuberculosis Control, Victoria, B.C.

Cartoon by R. Beckett, Victoria, B.C.

I WAS dissatisfied and my radiologists were disappointed. My normally exalted ego was suppressed and my attitude was one of dejection—all because my "open mouth shots" were not worth the facial exertion expended.

Either the upper incisors were superimposed on the odontoid process[1] or the process was resting on the occiput. Clearly, the estimation of the occlusal plane by visual alignment was a means too coarse for acceptance—and subject to the law of averages.

I reviewed all the available literature seeking a more accurate A.P. odontoid projection.

Journals—books—pamphets—I read anything which mentioned a process. Even a paper entitled "the developing process" was subjected to my search. I hoped that somewhere, perhaps casually, the odontoid process might be mentioned[2]. I emerged from among the books and papers, still at the mercy of the law of averages.

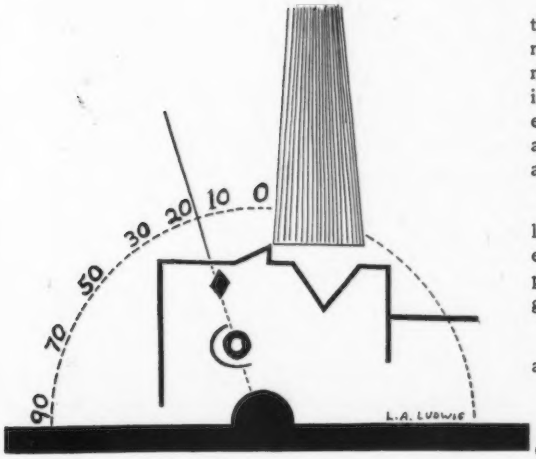
I queried next the dry skull—but my only profit was a bicuspid which fell from its socket. Nevertheless, the germ of an idea was born—the usefulness of which required still to be developed.

My sorely demoted ego, still pressing to reestablish itself, now urged a review of past experience. Memory recalled how in Sicily during the war, my radiologist had placed a dental packet, mounted with intensifying screens, in the desensitized pharynx to project the odontoid process postero-anteriorly. The dental film, with the process perfectly centred, demonstrated a fracture excellently. The patient, an airman, had crashed with his plane during an overhead action.

As this method obviously did not lend itself to routine radiographic procedure, this was still not a solution.

Lest I be accused of neglect of the mystic and occult, I searched the office for a suitable seer's crystal ball, but found only a small glass agate—a poor substitute. I peered instead into the murky depths of our film washing tank and attempted to conjure up a useful projection. At first, I saw only that the floor and walls of the tank were covered with a gray-green material that suggested I might be occupying myself more usefully—with a brush. However, I persevered, and while no vision appeared, I did conclude that I must seek a standard projection line or variation thereof, and that the well known "radiographic base line"[3] might well serve in this capacity.

The question now, was to determine if the relative positions of the bony structures involved remained constant from patient to patient. Tests over a period of time indicated these anatomical relationships held sufficiently well for the purpose. Using the radiographic base line, the following simple antero-posterior projection for the odontoid process was devised.



METHOD: The patient is supine. A cone of smallest diameter available is mounted on the tube. An angle projector or cardboard triangle cut to eighteen degrees from the perpendicular, is placed beside the head. The control panel is set to fast exposure—one-tenth second is satisfactory.

Depress or elevate the chin, so that a line drawn between the external auditory meatus and the exact outer canthus of the eye will be eighteen degrees from the perpendicular[4]. Touch the cephalad edge of the cone to the tip of the nose. Instruct the patient to maintain the exact nose-cone pressure and position while the mouth is opened. Do a practice "mouth open" drill to ensure the patient understands—this takes only a moment. A cork between the teeth is cruel and unnecessary.

With a little familiarity, this method requires little effort and is quickly done. The consistently good results will benefit your patient, please your radiologist and give you a sense of great satisfaction of a job well done.[5]

Press the exposure button with confidence—and usher in your next patient.[6]

---

(1) Except when the teeth were resting in a glass of water during the radiographic exposure.

(2) I learned instead, that the time I spent making coffee should be utilized shaking films in the developer.

(3) A line drawn from the external auditory meatus to the outer canthus of the eye.

(4) If the perpendicular is difficult to obtain due to obesity—find a thin patient—or tilt the tube caudad the precise amount necessary to compensate the deficiency.

(5) This satisfaction can also be obtained by quitting smoking.

(6) Take the other views required for cervical spine before the patient is released.

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Photo by Boyd Waddell.

TOP LEFT—Mayor D. H. Mackay, Calgary, presenting President W. Q. Stirling with ten gallon hat. TOP MIDDLE—Incoming President P. E. Hunt presenting outgoing President W. Q. Stirling with attaché case. TOP RIGHT—Dr. E. P. Scarlett, Guest Speaker at the Banquet. SECOND ROW—Presentation of Stetsons to C.S.R.T. Directors by Mayor Mackay. President Bill Stirling and his fiery steed. THIRD LINE—Lining up for the "chuck wagon". Singsong around the campfire. FOURTH LINE—Chief David Crowchild and family do a campfire dance with their visitors. C.S.R.T. Directors and their Sarcee Indian hosts.

C.S.R.T. Alberta Roundup '52

by L. J. CARTWRIGHT, R.T.

A WARM western welcome awaited C.S.R.T. members as soon as they alighted from the train at Calgary. One could not miss the welcoming committee—President John Welch and his wife Margaret vivaciously supported by Donna Gaynor, all dressed in the traditional embroidered satin regalia of cowhands, wearing white ten-gallon hats and bearing aloft a placard "Welcome C.S.R.T. Delegates." From that moment on the hospitality was continuous and everyone was made to feel at home. The vestibule of the Palliser Hotel adjoining the station was a reunion spot as more members arrived, and in the evening of that pre-convention Tuesday the scene was repeated in the registration room on the mezzanine floor. The dominating feature of the convention badges was a pair of very bow legs (western cowboy style) done in wood with "C.S.R.T. Calgary '52" branded on and surmounted by a blue film-base shirt bearing the member's name and a blue ribbon necktie. Everyone also received a copy of a lively little booklet autographed by John Welch and "edited by the ranch hands of the Lazy R.T. Ranch." The convention program was also a novelty, being trimmed to the shape of a high riding boot. Each page was trimmed a little shorter than the previous one at the "toe," and printed with the days, thus making a convenient thumb-index.

WEDNESDAY, SEPTEMBER 3rd

At 8 a.m. the following day the registration desk got down to business in earnest and at 9 o'clock the first paper, "Radiation Protection," was given by Mr. J. Stanley of Vancouver to a gathering of some seventy-five members. An interesting talk and a practical demonstration of "Processing Room Procedures" was given by Mr. Gordon Hamblin of Canadian Kodak Company, Vancouver. Using transilluminated fluids Mr. Hamblin demonstrated the various reactions and brightened up the proceedings with his humorous style. The final paper for the morning session was by Miss Jane Martin, McGregor Clinic, Hamilton, Ontario, and dealt with "The Chest and Bony Thorax." This was an excellent paper and was well illustrated by color slides.

At noon the meeting adjourned for the Civic Luncheon in the Crystal Room under the chairmanship of Mr. George Graham. One hundred and thirty sat down to the attractive luncheon, the main course of which consisted of very excellent B.C. salmon, a gift from the B.C. Society. Toward the end of the meal several particularly well-executed sets of square dances were put on by eight members of the Calgary Branch of the Canadian Square Dancing Association, Collier Haberly, being the caller. Following this Mayor D. H. Mackay, after welcoming those present for the convention, gave an eloquent and heart warming speech, stressing the value of gatherings such as this in bringing people from all parts of the country together and welding a sense of national unity. After thanking the Mayor for his inspiring talk, the chairman announced that, through the generosity of Mrs. Welch, typical western souvenirs in the form of "ten-gallon" Stetsons were to be presented to the C.S.R.T. Directors and the Editor of *The Focal Spot* and asked His Worship to make the presentations. So, starting with Mr. W. Q. Stirling, President, the Mayor placed a dozen hats over a dozen smiling faces; a kind gesture which we know would have met with the hearty approval of the late well-remembered Bert Welch who, we recall, told Albert Perry, N.S. Director, that if the C.S.R.T. Convention ever came to Calgary he would give him a real Western hat.

After this pleasant interlude we had to get down to business again at 2 p.m. for the Official Opening and the First Business Session. Mr. J. L. Welch was in the chair and following the singing of the National Anthem the Invocation was delivered by Calgary's pioneer radiographer and C.S.R.T. Life Member, Mr. E. S. Hoare. "What a change!" Mr. Hoare must have been thinking, since he, with already 16 years' experience with x-rays, started radiographic work in Calgary in 1913.

Dr. K. D. Symington welcomed the members on behalf of the radiologists of Alberta. A

shadow was cast over the proceedings by the announcement that another Life Member of the C.S.R.T., Mr. Percy Ghent, had been taken ill on the train on the way to the convention and had been removed to Winnipeg General Hospital. A telegram and flowers were sent to the hospital and steps taken for members in Winnipeg to visit Mr. and Mrs. Ghent.

Apart from routine business, reported elsewhere in this issue, the most important item was a comprehensive progress report on the 1953 International Convention arrangements submitted by the General Chairman, Mrs. Mary F. Cameron, who was unfortunately unable to attend the meeting in person, the report being read by Miss Jane Martin.

In the evening a "Roundup Cocktail Party" was held, our hosts being the Alberta radiologists. This was an hilarious affair at which the ball was kept rolling by the interpolation of several amusing skits and acts. A spirited trio consisting of Mrs. Frances Newing (née Frances Shaw), Miss Doreen Calvert, and Miss Roselle Schmidt put on a skit, "The Mrs. Newing in a lead rubber apron was the radiologist, Miss Calvert made a most immaculate technician, and Miss Schmidt, in an abbreviated white cotton gown and a waist-length braid making a very attractive but somewhat woebegone patient. Later in the evening the announcement was made that one of the champion western marksmen would give a demonstration of trick shooting. A space was cleared down the middle of the long room and a china plate held up at the far end. A deafening report rang out and as the plate broke into fragments the cleared space became considerably clearer to give these wild westerners a wide berth. The next shot was taken over the shoulder and again a plate smashed to smithereens. The next was announced as a very difficult shot—the bullet would ricochet from the side wall of the room at just the correct angle to hit the plate; which transpired, but by this time the initial nervousness of the spectators had changed to laughter as they realized the plates were being smashed by a hammer from behind a curtain. What a disappointment! The West wasn't wild after all!

Another very good act was that of a ventriloquist, Hugh Campbell, who, with the help of several dummies, kept the audience amused for some time. During the evening many old friendships were renewed and more made as radiographers from all over the country mingled amid a hum of conversation and laughter.

THURSDAY, SEPTEMBER 4th

Promptly at 9 a.m. on Thursday the first technical paper was given by Mr. C. K. Bridgeman, Calgary, the title being "Trouble Shooting for the Technician." At 10 o'clock the Second Business Session started, reports of which appear elsewhere.

Following the Business Meeting the Directors made a pilgrimage to the grave of the late well-beloved Herbert Welch and placed a wreath thereon.

At 2 in the afternoon the first talk had to be regretfully cancelled. It was to have been "Inside Nature" by Mr. Percy Ghent, illustrated by some of the inimitable nature radiographs which for many years were associated with the name of Percy Ghent. Hence the first speaker introduced by the chairman, Mr. P. E. Hunt, was Dr. C. S. Dafoe, of Edmonton, whose subject was "Chest Radiography." Dr. Dafoe gave a most informative talk which was supplemented not only by radiographs but also by two movies in color. A talk by Miss S. Fedoruk, Physicist from the University of Saskatchewan, showed great mastery of her subject, "Cobalt 60 and Betatron," as well as ability to transmit her knowledge to others. The final paper of the afternoon session was "Magnification Technique" by Mr. R. MacQueen of Edmonton, illustrated with many interesting radiographs "blown up" by means of the new ultra-fine focus tube and increased object-film distance. As this concluded the afternoon meeting a general exodus to rooms took place to prepare for the trip to the Sarcee Indian Reservation. So at 5 o'clock three bus loads of x-ray folk left the Palliser Hotel for the reservation eight miles south of Calgary. It was an interesting drive, first along the paved highway past millionaire ranches; then through narrow roads in the foothills till we turned in at a gate marked "Crown Lands, Sarcee Indian Reservation." Then, as we rounded the shoulder of a hill, we saw the farm buildings of the reservation and some brightly painted wigwams beyond. Mounted on a white horse that veteran horsewoman and x-ray technician, Frances Shaw (Mrs. Newing) greeted the cavalcade of busses and added an authentic western atmosphere to the scene. We found a large corral surrounded by an 8-foot five-barred fence and perched ourselves on the top rail from which we could enjoy the exhibition of bareback

riding and steer-roping put on by the Indians and still be high enough to avoid being side-swiped by a steer. As a climax to the proceedings our worthy President, Bill Stirling, mounted a white horse and was photographed flourishing his ten-gallon hat aloft in true Roy Rogers fsahion, to the accompaniment of enthusiastic cheering from the 150 radiographic cowboys and cowgirls. Both appetite and watch said it was now supper time, so everyone trooped over to the campfire in front of the wigwams for the chuck wagon dinner. On the way some of us looked back and there on the brow of the hill, silhouetted against the twilight stood a horse and rider motionless, an appropriate western tableau with which to let the curtain of night fall on a thrilling western evening. Now a snakelike queue formed, the interesting objective being to load one's plate with good hot stew from the "chuck wagon" (represented by a Calgary caterer's truck) and one's cup with steaming hot coffee. As these were obtained, and later followed by apple pie, a large gathering formed around the fire and soon widened as the logs grew botter. We were glad to see half-a-dozen Sisters sitting on a bench by the fire apparently enjoying the outing thoroughly. The keen outdoor appetites being well satisfied, paper plates and cups made the fire burn even more brightly and the crowd settled down for a sing-song led by George Graham and accompanied by Dave Enns on a piano-accordion. Dr. Gill was called upon to do the solo part in Alouette and he made quite a professional job of it and perhaps enabled the rest of us to a bit better with the French phrases. When we were beginning to get a bit hoarse, the Indians, now arrayed in their full evening dress of feathered headpieces and other regalia, took over and with a drum subbing for a tom-tom did several war dances around the campfire. Their squaws and children followed behind them and Gordon Hamblin, swathed in a blanket, brought up the rear. Later a little Indian girl, Linda One-spot, sang several songs which went over in a big way with the crowd. In a farewell speech the Indian chief, David Crowchild, terminated his remarks with a "punch-line" to the effect that "Indian scalp his enemy; white man skin his friend."

FRIDAY, SEPTEMBER 5th

Next morning everyone seemed to be up bright and early. The first lecture was given by Dr. T. A. Bell of Calgary, his subject being "'Surface Landmarks and Radiography of the Abdominal Organs." Dr. Bell clarified his subject by reference to large anatomical charts and distributed mimeographed notes and diagrams to help us retain his suggestions.

The Third Business Session followed and this is reported elsewhere.

In the afternoon four lectures were given to an attendance which taxed the capacity of the hall, L. J. Cartwright being in the chair. Mr. Frank Dreisinger, Manager, Technical Services, General Electric Corporation, Milwaukee, was the first speaker. We were grieved to hear his preliminary announcement that Mr. H. O. Mahoney, whom we had hoped to have had with us, was seriously ill at his home in Chicago. Mr. Dreisinger's subject was "Money Down the Drain" and dealt with the advisability of using sufficient replenisher to keep the developer up to par, thereby extending its life amazingly.

Before introducing the next speaker, Dr. M. Mallet of Edmonton, who was to deliver the Welch Memorial Lecture, the chairman eulogized the late Herbert Welch who had been such an ardent worker for the Society and whose memory was cherished by all who had been privileged to be associated with him. A photograph of our beloved ex-president was then projected on the screen and the audience expressed their respect by rising for a brief period of silence.

Dr. Mallet's lecture on "Radiography in Obstetrics" was listened to with intense interest as it was an unusual subject for technicians, dealing not with pelvimetry but with the obstetrical conditions which might be encountered by radiographers doing this type of work. Dr. Mallet's demonstrations of pre-natal positions by means of a doll and a skeleton added to the graphic effect of his presentation.

The next paper was also on an unusual subject—"Animal Radiography," given by Mr. Ted Bishop of Guelph, Ontario. Mr. Bishop, chief technician at the Ontario Agricultural College, came in place of Dr. Broome, who was unfortunately prevented by ill health. The color slides and the description of the work given by Mr. Bishop proved to be an eye-opener to the audience who had scarcely realized that the equipment and the work done was equal to that of the best "human" hospitals.

An interesting talk by Dr. D. G. Florendine, who, with Dr. Porter, succeeded the late Dr.

McGuffin at the Radium Institute, on "Problems in Therapy," concluded the afternoon session. While we were at the meeting the visiting wives had been taken for a city tour concluding with a delightful afternoon repast at the Pump Room, Picker X-Ray Corporation being the hosts.

In the evening the Annual Dinner and Dance took place and by 6.30 the anteroom of the Ball Room was filled with the hum of conversation over pre-dinner cocktails. The ladies particularly presented a startling contrast in their costumes to those they had worn the evening before at the Reservation. Slacks, sweaters and Stetsons had given place to the rustle of evening gowns. In fact some of the men who had met girls on the previous occasion were re-introduced at the dinner before they realized they had met before.

The place-cards were colored paper wigwams held together by brightly colored toothpicks. The men cards had artistic pictures of Alberta Indian children on the covers. Bunches of wheat, oats and barley were utilized as table decorations. The large hall was completely filled, around 200 sitting down to dinner. The pièce de résistance on a very appetizing menu was another typically western item—buffalo meat—and no wisecracks about "resistance" were appropriate either as it was wonderfully tender and tasted very much like the beef we don't get any more these days. It made one wish the Canadian government would relieve the beef shortage by breeding buffalo for food purposes. We were told it could only be purchased occasionally and this particular piece was bought back in the winter and put in deep freeze till our banquet.

Messages of goodwill were read from Percy Ghent, so unfortunately confined to the Winnipeg General Hospital; from Mrs. Emily Welch, who was visiting her daughter in Ontario, and from Dr. E. A. Petrie, Saint John, New Brunswick. The chairman, President W. Q. Stirling, introduced the guest speaker, Dr. E. P. Scarlett, who gave us a most entertaining talk on what he described, quoting Lewis Carroll's Walrus and the Carpenter, as "Ships, Shoes and Sealing Wax." Indeed, his talk had a definite literary flavor and amongst other things he recommended lovers of Sherlock Holmes to try and find the books of another author who started as a doctor—Austin Freeman, who wrote the Dr. Thorndyke books. Dr. Scarlett mentioned The Singing Bone particularly. He also quoted a book on medical procedure in old London telling how V.D. patients were flogged on discharge from hospital and told not to let it happen again, and how nurses were also flogged for being drunk and disorderly while on duty. He wondered also if a sort of natural law of compensation was causing us now to be storing blood plasma while in the past, copious bleeding had been popular. From a Roentgen biography Dr. Scarlett quoted a passage showing that the patron saint of x-rays towards the end of his life was perturbed about the rise of the National Socialist Party under Hitler. It was somewhat of a surprise to realize that Roentgen was still alive as recently as that. After Mr. Stirling had thanked Dr. Scarlett for a particularly interesting talk, the incoming President, Mr. P. E. Hunt, recalled the retiring president, Mr. Stirling, and presented him, on behalf of the C.S.R.T., with a very handsome leather attaché case in appreciation of his valuable service during the past year. The evening was brought to an enjoyable conclusion by dancing to the music of an excellent orchestra.

SATURDAY, SEPTEMBER 6th

A brief General Meeting and a final post-convention Directors' Meeting first thing in the morning wound up the convention proper, but on the social side the big final firework display was just about to start. For many were about to realize their lifelong ambition—a trip to Banff!—and it is doubtful whether there is a trip in the world more beautiful. Two busloads left the Palliser Hotel at 11 a.m. It was a perfect morning, bright with enough fleecy white clouds to add beauty to the blue sky. Eighty-five miles away the Rocky Mountains showed as an irregular blue ridge on the horizon, intermixed with clouds and sometimes glinting as the sunlight fell on glaciers. We were travelling along the wide Bow River Valley and the foothills became steeper as we progressed, but the new road winding along the hillsides minimized the grades. After riding for an hour and a half the mountains were noticeably nearer and after two hours we reached the Gap. Here the Bow River, the railway and the highway converge in dramatic fashion to negotiate the narrow pass into the Rockies. Soon we saw the triple peaks of the Three Sisters and a few miles further reached the gateway to Banff National Park, at which point all vehicles must register. Another ten miles of wonderful scenery, including a short passage through clouds hanging over the roadway, and we entered the town of Banff. Pulling

up before the King Edward Hotel we were asked to reassemble in half-an-hour in the dining room of the hotel for lunch. One hundred and sixty sat down to the very excellent turkey dinner (lunch seems an inadequate term) with the lavish helpings which seem to characterize Western fare. Toward the end of the meal a bellboy came hurrying in calling, "Wire for Mr. Stirling!" The President tipped the boy and received the wire—a few twists of rough baling wire! When the laughter had subsided, Mr. Stirling, in one of his characteristically humorous speeches, referred to an incident the day after the Sarcee outing when Dr. Gill announced that he had two blankets in his possession and he had taken a fancy to them, so if they were not claimed he was going to take them back to Montreal. The blankets were unfortunately claimed by the owner; so Mr. Stirling presented Dr. Gill with a parcel which was found to contain two handsome blankets as a slight recognition of the very valuable work Dr. Gill has done with our Educational Committee and the inspiring interest he has taken in our organization. Dr. Gill, in a short but witty speech, acknowledged the gift and announcements were then made that groups would be formed for the afternoon under various leaders—some going mountain climbing, some swimming, some boating, and some motoring. We chose the lazy way—motoring—and started off by going to the beautiful Banff Springs Hotel which is situated about a mile from the town of Banff. An hour or more was spent here wandering through the palatial hotel rooms, drinking in the beauty of the view from the terrace down the Bow Valley, admiring the brilliance and size of the flowers in the gardens and conservatory. Then we walked down the hill to the fish hatchery and saw the tame fish, 18 inches long and more, leaping into the air from the fish pools outside the building, to snap at food thrown by visitors. A little further and we reached the Bow River Falls, the green water whipped to a white foam. Then our car returned for us and took us halfway up the side of Sulphur Mountain to the Upper Hot Springs. The winding road cut in the slopes of the thickly wooded mountain was beautiful in itself, but the view when we reached the springs was breath-taking. From still higher up the mountain fell a small stream of almost boiling water which fed the blue-green swimming pool in which some of our members were disporting. A nearby telescope enabled us to survey the neighboring peaks, on one of which we could clearly see a solitary mountaineer, invisible to the naked eye. Returning to the town we visited the Natural History Museum and after supper, when darkness had fallen, we took a delightful walk through the illuminated gardens behind the Administration Building, its paths winding beside streams and across small bridges and tiny cascades, all floodlit in many colors. About 8.30 p.m. the busses reloaded with those who were returning to Calgary and so, with the beautiful Banff climax, the tenth annual gathering of the Canadian Society of Radiological Technicians came to a close.

ODE TO CALGARY

BY W. Q. STIRLING

I am all for Calgary and the bright and sunny West,
Where they place a Welcome Mat at the feet of every guest.
I've been treated like a potentate of very great renown,
Since I put my number sevens in this happy Western town.
I've had luncheon with the Mayor, congenial Don McKay,
Who placed a hat upon my head to crown a happy day.
We were taken out to Sarcee, and believe me I was bushed,
When asked to ride a broncho, I just asked to be excused.
But that would never never do for the happy Calgary folk,
So I was LIFTED on a horse they assured me had been broke.
I never sat a horse before on the rolling Western plains,
I'm more used to steering wheels, than greasy leather reins.
Of course I looked quite happy, calm, and perfectly at ease,
But the horse knew I was fooling by the shaking of my knees.
I may be boss of Wild R.T.'s when at dinner or at tea,
But I am here to tell you that that horse was boss of me.
So there I sat serenely upon that wild and bucking steed,
The chieftain of the proudest clan north of the River Tweed.
Then they snapped my picture—it's to be put in FOCAL SPOT,
And I did it all for GLORY, and glory ain't so hot.
Right now I'm proud as Lucifer, you've no idea how I feel,
But I hear that out in Sarcee I'm Big Chief Blistered Heel.

Percy P. Ghent, R.T.

1888 - 1952

THE Society has sustained a deep loss in the death of Percy Ghent. Always a staunch worker in the radiographic field, Percy actually died in harness, for he was on his way to the C.S.R.T. Convention in Calgary with Mrs. Ghent when he suffered a heart attack and had to be removed from the train and admitted to the Winnipeg General Hospital. The reports received at the convention gave reason for hope, but on September 21st he passed away.

A Life Member of the C.S.R.T., Percy Ghent's radiographic experience went back to 1910 *when he joined the staff of the x-ray department of the Toronto General Hospital, where he remained until his retirement some six years ago. Always interested in literary matters his years after retiring from the active x-ray field seemed almost fuller and more varied than his earlier life. In spite of the handicap of x-ray burns on his left hand, with subsequent finger amputations, a steady stream of articles on a variety of subjects flowed from his typewriter. He produced and edited* The Ontario Radiographer, *a pioneer venture into the x-ray journalistic field, of which* The Focal Spot *was the off-shoot and from which much valuable experience was derived.*

A number of years ago when the Radiological Society of North America held its convention in Toronto he wrote A Short Biography of Roentgen, *a presentation volume which the visiting radiologists received as a souvenir of their Canadian meeting. When the Ontario Society some seventeen years ago held one of its early conventions he printed, at his own expense, an entertaining booklet containing a fund of amusing and unusual experiences in the x-ray department, a copy of which each visitor to the convention received.*

In recent years Percy became particularly interested in x-ray investigation of the virtually unexplored fields of plant and animal life and it was to show us some of these perfect nonscreen radiographs of natural history that he was journeying to Calgary at the time of his fatal seizure.

He wrote two books of historical research—John Read and His Friends *and* Literary and Historical Fragments of Canadian Interest. *He was intensely interested in Canadiana and through the years amassed one of the fullest collections in the country of original letters and documents of famous Canadians. Among these were D'Arcy McGee, General Brock, Sir John A. Macdonald, Chief Joseph Brant and Bliss Carman. He numbered many of Canada's literary people among his friends and at his funeral the Canadian poet, Wilson McDonald read one of his poems.*

He was an enthusiastic member of the Toronto Field Naturalists' Club which may have inspired the addition of amusing little sketches of ducks, birds and flowers to his correspondence, a habit which his friends knew so well.

Mr. Ghent was well-known to the general public through his articles "In the Spotlight" which appeared in the Toronto Telegram twice a week, the variety of subjects dealt with indicating the versatility of his mind.

Under his editorship the C.I.L. Canadian Newsletter *became so esteemed that several hundred extra copies of each issue had to be printed to meet the unsolicited demand from the United States.*

With his passing we lose a vivid and versatile friend who cannot be replaced. The deepest sympathy of the officers and members of the C.S.R.T. goes to Mrs. Ghent and to his son Arthur and daughter Nancy in their great loss. *L.J.C.*

The Focal Spot

Journal of the Canadian Society of Radiological Technicians

Volume 9 TORONTO 1952 NO. 4 *Issue No. 36*

Editorial Comment

Convention Highlights

Although twelve pages were added to this issue space has become very tight. Hence the summarization of the Calgary Convention highlights must be brief. Page numbers indicate where more details may be obtained.

It was decided that the rule stipulating that C.S.R.T. Exams be conducted over two days, not one, must be enforced, except in emergency. (P. 191)

In future a current year seal must be affixed to certificates to render them valid .(P. 191)

A textbook on Radiographic Anatomy and Physiology compiled by Dr. Mallett for the Alberta Division will be adopted by the C.S.R.T. for teaching purposes. (P. 191)

A new form of membership—"Non-Active"—was created. (P. 192)

The 1951 resolution regarding admitting therapy technicians to the C.S.R.T. by a special examination was deferred for further consideration. (Pp. 190 and 192)

The mystery of the Proxy Vote came up for further discussion. (P. 193)

Technicians under 21 years of age who have passed the exams will receive their certificates but will pay student dues until they attain their majority and hence will have no vote. (P. 193)

The C.S.R.T. appointed an Honorary Solicitor for the Society—Mr. R. Curran of Ottawa. (P. 193)

Mr. P. E. Hunt was elected President for 1953.

Saint John, New Brunswick, was selected as the site of the 1954 Convention.

X-ray technicians all over Canada, equally with those in the United States suffered a great loss in the death of Harold O. Mahoney, who died on Sunday, October 21st, at his home in Oak Park, Illinois, after an extended illness. His death ended 30 years of service in his chosen field and 30 years with the General Electric Co., X-Ray Department. Although the employee of a commercial firm, Mr. Mahoney nevertheless enjoyed a professional status among x-ray technicians and the high esteem of radiologists throughout North America. He published numerous articles and books on his favorite subjects, and won awards for the excellence of his exhibits at conventions of the American Medical Association, Illinois State Medical Society, and the Fifth International Congress of Radiology. Although best known for his service as a teacher of x-ray technic to Catholic sisters, Mr. Mahoney actually has taught far more lay technicians—numbering many thousands during his career. He also devoted considerable time and effort to research in anatomy. He used x-rays of anatomic sections to prepare material that has proven invaluable in the teaching of anatomic relationships to medical students. Bob Mahoney was well known at our Canadian meetings and was originally slated for a paper at the recent Calgary Convention until his illness prevented it. Canadian technicians unite with their American colleagues in expressing their deepest sympathy to his family in their bereavement.

EDITORIAL COMMENT

PHYSICS REQUIREMENTS FOR STUDENTS WRITING SPRING '53 EXAMS

The Secretary of the C.S.R.T. wishes to clarify the ideas of students regarding Physics for the next examinations. There seems to be an impression that Physics is not required if students have been in training prior to January 1st, 1953. The correct interpretation of the regulations is that those applying for registration (in other words, taking their exams) after January 1st, 1953, will be required to show evidence of having taken one year of High School Physics. If any students planning to write the exams next May have not this qualification, they should start right way to qualify in this regard.

CANADIANS WITH AMERICAN CERTIFICATION ONLY

It is pointed out to Canadians in this category who wish to join the C.S.R.T. under the Reciprocity arrangement that they have only until December 31st of this year to do so. This provision clears up registrants of this type outstanding at the time of the reciprocal arrangements. After January 1st, 1953, the regular reciprocity agreement will come into force, but will apply only to those registered from that date on.

START NOW TO PLAN FOR THE BIG GATHERING IN JUNE

Six pages in this issue deal with arrangements for the Combined A.S.X.T.-C.S.R.T. Convention in Toronto next June. A glance at these pages should make all members realize that this convention should not be missed by any who can possibly attend. Now—six months away—is the time to start a systematic savings plan for this purpose. Now—is also the time to start work on film exhibits and papers, and the prizes offered for these will help defray the expenses of those who work hard enough and well enough.

ASXT 1952 CHICAGO CONVENTION MOVIE AVAILABLE

A letter has been received from Mr. Arthur Fuchs of the Eastman Kodak Company in which he kindly offers to lend this film for showing before sectional meetings. Any groups interested in showing this film are asked to write to Mr. J. Seed, X-Ray Division, Canadian Kodak Company, Mount Dennis, Toronto, Ont.

CORRECTION

An unfortunate but fairly obvious typographical error crept into the article "The Carpal Scaphoid" in the last issue. On page 117 at the top of the second column the headings are transposed, the first paragraph should be headed "Lateral" and the second "Oblique." To tie in with the index letters on the radiograph the lateral is "C" and the oblique "B".

The Editor's Bookshelf

X-RAY INTERPRETATION. By H. Cecil H. Bull, M.A., M.B., M.R.C.P. 2nd Edition, 1951. Oxford University Press, Toronto. 400 pages. 287 illustrations. $5.00.

This is one of the very few radiological books which would appear to be valuable for radiographers. It is written primarily for medical practictioners and senior students rather than for radiologists. However its unique presentations of the illustrations, of which there are nearly 300, renders it of considerable interest to advanced x-ray technicians who wish to have a better idea of the conditions which they are depicting on their radiographs and on which the radiologist will base his diagnosis. The unusual feature of the illustrations is that they are all line drawings with only the essential features shown, which makes them more easily understood than in a photographic reproduction of the radiograph itself with all the extraneous matter. This work achieved considerable popularity before the war. Since then it has been out-of-print and this new revised edition should supply a long felt need. We feel that a careful study of this book would make the radiographer more valuable to his radiologisy and also add intelligent interest to the production of the best diagnostic radiographs. —L.J.C.

Tenth Annual General Meeting

Canadian Society of Radiological Technicians

Calgary, Alberta, Sept. 3 to 6, 1952

Report of the President

At the end of each year it is the duty of your officers to report on what has been accomplished in each particular section of the Society. In my capacity as President I will try and give you the highlights of what has transpired since the last Annual General Meeting. In doing so I feel very humble when I remember the names of the wonderful people who have held this office before me. However, I have done my best to carry on in the best traditions of the C.S.R.T. and hope I have contributed a little to the welfare and progress of the organization.

The Reciprocal Agreement between the American Registry and the C.S.R.T. is now an accomplished fact. A similar agreement has also been completed between the British Society of Radiographers and ourselves. We are now awaiting the return of the signed documents from London to make the agreement final. The culmination of the two agreements is something of which we may be justly proud. It speaks well for the C.S.R.T. and its officers when two much older organizations have seen fit to link hands with us so that jointly we may bring benefits to all x-ray technicians in the Anglo-Saxon world. It is also with justifiable pride that we note both organizations seem equally well pleased with the arrangements. Surely only good can come of such an enterprise, and that is what we are striving for.

It is with much pleasure that I can announce the news that the Training Syllabus which has been drawn up between the members of the Canadian Association of Radiologists and the C.S.R.T. is now being printed and will soon be available to all Training Centres. We have agreed to pay part of the cost of printing this curriculum and I know you will all be in agreement with this arrangement as we will then feel that it is a part of our organization. I would like to extend my sincere thanks to the members of the Canadian Association of Radiologists who helped in this undertaking, and particularly Dr. E. A. Petrie who was tireless in his efforts to bring this to a successful conclusion. Coupled with Dr. Petrie I would like to mention Dr. Gill and Dr. Jean Bouchard. The members of our own Society who helped complete this work also merit my sincere thanks and appreciation.

We are pleased to report that the levy which was inaugurated on the first of the year has brought in a total of six hundred and fifty-nine dollars. This money is to be used to help defray the expenses of Member-Societies' Directors and it is hoped that in this manner we will enable all Directors to attend Annual Meetings from now on. A special thanks to all Member Societies for their co-operation in this respect.

Congratulations are hereby extended to the members of the Board of Examiners, Dr. Macpherson, Dr. Jutras, and Mr. William Doern, for the splendid job they are doing to get examination results out in the shortest possible time. This is deeply appreciated by all the candidates as well as Member-Society secretaries.

It is with keen delight that we again welcome Dr. E. A. Petrie to our Board of Directors as representative of the Canadian Medical Association and Dr. Gill as Director representing the Canadian Asociation of Radiologists. Both have proved their merit in the past and their reappointment is a source of satisfaction and pleasure to all of us.

Next year the American Society of X-Ray Technicians and the C.S.R.T. will hold a joint meeting in Toronto. We have been exceptionally fortunate in having appointed Mrs. Mary F. Cameron of Hamilton as Canadian Chairman for this event. Mrs. Cameron has done a prodigious amount of work on the project, in fact, the reports she has sent me from time to time have provoked my profound admiration and respect. I had hoped that Mrs.

Cameron would be present at this meeting to give a detailed report in person but at the last minute she was unable to make the trip. When her report is read later on you will realize what her activities have done for the C.S.R.T. The thanks of all members are extended to Mrs. Cameron with the knowledge that the prestige and honor of the C.S.R.T. have been greatly advanced by her untiring efforts.

We are very pleased to welcome three new Directors to our Board in the persons of Mrs. Mina Stewart of Manitoba, Mr. Roy Hendra of Alberta, and Mr. Darrell Liston of New Brunswick. They have already been at work and their helpful suggestions prove that their appointment was justified. We also welcome our new Secretary-Treasurer in the person of Mrs. E. I. Hood of British Columbia. Again we find that the appointment of Mrs. Hood was a happy one as will be shown when she makes her report.

We expect very shortly to announce the admittance of the Newfoundland technicians into the Nova Scotia Society. Dr. Murphy has drawn up a plan for their acceptance which is most comprehensive and all technicians in our new province are being carefully schooled to prove their worthiness for membership. After this all new students will only be accepted in the usual manner. We are all delighted to be able to welcome our far away friends and hope to be able to meet some of them at some of our meetings.

We are indeed fortunate in our selection of officers in this Society and I would like to express my sincere thanks on behalf of the C.S.R.T. to all Directors, Chairmen and members of Committees for their co-operation, criticism, and helpful advice. I would particularly like to express thanks to Mrs. Hood and Mrs. Mina Stewart, who, since their appointment have both been diligent workers. You can thank them later on when they make their reports. At this time I would like to express my thanks to all members for the confidence placed in me by electing me to the Presidency. It is a wonderful privilege to serve such a splendid organization.

So we go into another year, hopefully and confidently. Step by step we are forging ahead, making new friends, progressing towards the goal of perfection by study, common sense and hard work.

In closing I wish to thank all of you for your kindness and at the same time to offer my continued support to the new president when he is elected.

All of which is most respectfully submitted.

—W. Q. STIRLING, R.T.,
President.

Report of the Secretary

This is my first report as Secretary of the Canadian Society of Radiological Technicians. If any information is omitted, which you believe should have been included, please excuse my inexperience in such details.

May I, at this time, say how much I appreciate your confidence in placing me in this responsible position in the Society. I trust I have not failed in my duty.

An aftermath of the 1951 Convention was the cost of the recording of the Minutes. This charge was greater than any one had ever dreamt it would be. One should hesitate to blame the stenographer altogether. Possibly the details of the reporting were not discussed beforehand so naturally she proceeded as though she were dealing with a legal assignment. It is suggested that in future whoever engages a reporter for this important work take time to explain what is wanted and if possible what the charges are likely to be—then everyone knows where he stands.

1951 saw the fulfilment of the dream of many of the older members—reciprocal agreements with the American Registry of X-Ray Technicians and also with the Society of Radiographers of Great Britain. Several Canadians and a few American technicians have applied for membership through these agreements.

Notices of the General and Special General Meetings, proxies and ballots went out to 685 members. I regret to state that many members do not seem to be interested enough to return the ballot and proxy as requested. Only about 35 per cent have been returned. Also many fail to state clearly on the envelope that it contains a ballot and so some were opened in the belief they were proxies or other communications. Three hundred and fifty letters and 10 packages were mailed from this office.

I cannot end this report without voicing my grateful thanks to Mr. Stirling for his able advice. He was always willing to answer my many questions and to set me on the accepted pathway. My sincere thanks also to the secretaries of the Member-Societies, not forgetting the Treasurers too. They were always willing to co-operate and try to give me the information I requested. This I appreciate very much for I know that for several it has meant long hours of extra work at night.

All of which is respectfully submitted.

—E. I. HOOD, R.N., R.T.,
Secretary, C.S.R.T.

August 27th, 1952.

Report of the Treasurer

A copy of the Auditor's report has been sent to all Directors and Official Delegates and to Mr. Cartwright for publication in *The Focal Spot.*

As in previous years the largest expenditure is for Officers' Travelling Expenses and honoraria. Next are the accounts for printing and stationery, etc. During the year the bank account was changed from "Current" to "Savings." It is hoped the interest received will offset to some extent the exchange paid on both outgoing and incoming cheques.

In 1951 a suggestion was made that we obtain from the Member-Societies an estimate of what their membership would be for the coming year. This would show our potential revenue. Unfortunately the idea did not prove to be a feasible one.

At the 1951 Convention in an endeavour to augment the general funds of the Society and the Directors' Expense Fund in particular, a levy was made against the membership of the C.S.R.T. of $1 per capita. The method of collection was left to the devices of the Member-Societies. Considerable thought was given as to how the C.S.R.T. would know the amount of money to be available for the Directors by Convention time. After consultation with Mr. Stirling, our President, I notified the Secretaries of the Member-Societies that they should base the 1952 levy on their 1951 paid-up membership and asked that they remit such amount as soon as they could. I explained that if they waited to collect on the 1952 paid-up membership we would be getting small amounts throughout the year. This I wished to avoid for the reasons explained above. It is suggested that next year the levy be based on the 1952 paid-up membership so that at January 2nd, 1953, each Member-Society will know how much is to be paid to the Directors' Expense Fund for 1953.

During the past year several technicians holding only American Registry Certificates applied for full membership in the C.S.R.T. through the reciprocal agreement with the American Registry of X-Ray Technicians. Here too, the question of the distribution of fees has been a bit confusing. At the moment the entire fee (excepting Member-Society's share) is held in the general fund. The question arises should the Board of Examiners' Treasury receive a portion? Under existing conditions the Board of Examiners has no expense whatever in connection with these members. The ertificates are printed and distributed at the expense of the general funds. This applies to all certificates.

All of which is respectfully submitted.

—E. I. HOOD, R.N., R.T.,
Treasurer, C.S.R.T.

August 27th, 1952.

Financial Statement of C. S. R. T.

For the Year Ending July 31st, 1952

Exhibit "B"

STATEMENT OF REVENUE AND EXPENDITURES

Revenue

Membership Fees—		
Ordinary	$2,240.00	
Associate	125.00	
Membership Society Fees	70.00	
Reciprocity Fee in lieu of examination	40.00	
Levy—Directors Expense Fund	659.00	
Bank Interest and Exchange Received	1.43	
Certificate Charges	3.00	
		$3,138.43

Expenditures

Officers' Honoria and Expenses	$1,119.17	
Stenography, Printing and Stationery	1,051.76	
Postage, Telephone and Telegrams	141.43	
Joint Meeting Expense	200.00	
Flowers	16.55	
Audit Fee	40.00	
Exchange and Bank Charges	7.22	
		$2,576.18
Excess of Revenue over Expenditures transferred to Surplus (see Exhibit "A")		$ 562.25

Exhibit "A"

BALANCE SHEET

at at July 31st, 1952

Assets

Cash in the Bank		$2,918.56

Liabilities

Accounts Payable: Audit Fees		$ 40.00
Surplus:		
Surplus Balance, August 1st, 1951	$2,316.31	
Plus: Excess of Revenue over expenditures for the year ended July 31st, 1952	562.225	
		2,878.56
		$2,918.56

To the Executive and Members of
The Canadian Society of Radiological Technicians:

I have pleasure in submitting the following financial statements:

Exhibit A—Balance Sheet as at July 31, 1952.

Exhibit B—Statement of Receipts and Expenditures for the year ended July 31, 1952.

The above mentioned statements are compiled from the books of account of your Society after a detailed Audit of all transactions and vouchers and present a true and correct picture of the affairs of the Society.

202 Lee Bldg.,
Vancouver, B.C.

HARRY L. WARREN,
Public Accountant

Financial Statement of Board of Examiners C.S.R.T.

July 1st, 1951, to July 1st, 1952

Statement of Condition as at July 1st, 1952

Assets

Cash in Royal Bank	$1,081.29
	$1,081.29

Receipts

Brought forward Feb. 1st, 1952			$ 883,54
Petty Cash on hand			1.12
Rec'd Examination Fees		337.30	
Less: Return to:			
Quebec	$ 18.90		
Manitoba	15.90		
Ontario	27.00		
New Brunswick	3.90		
		65.70	
Net Examination Fees			271.60
Fees from Saskatchewan			7.00
Petty Cas hon Hand July 1st			4.02
Outstanding Cheques (3)			61.80
			$1,229.08

Liabilities and Net Worth

Liabilities	Nil
Net Worth	$1,081.29
	$1,081.29

Expenditures

Petty Cash	$ 15.00
Willson Bros. (typewriter)	67.55
Dr. Jutras	10.00
Wallingford Press	47.19
Refund to Saskatchewan	7.00
Exchange on Cheques	1.05
Cash in Bank July 1st, 1952	1,081.29
	$1,229.08

Since completion of this report we have transferred the bank account to a Savings Account at the Dominion Bank, Notre Dame and Sherbrook Branch, Winnipeg, Man. We have also purchased a $500.00 Dominion of Canada Registered Bond with a portion of the above funds.

—O. E. GUNDRUM, R.T.,
Secretary.

Report of Examining Board, 1951-52

Once again it is my privilege to report to you as Chairman of the Board of Examiners.

During the past year there has been a change in the personnel of the Examining Board: Mr. C. J. Bodle, who has given years of faithful service has, unfortunately had to retire on account of ill health.

Your Directors have appointed Mr. Wm. Doern to fill this vacancy. Miss O. Gundrum has kindly consented to act as our secretary.

As heretofore the results of the previous November and May examinations have been duly published in *The Focal Spot.*

We are pleased to report that in both the above instances the results were in the hands of the local secretaries within the thirty day period. The uniform examination folder now in use adds considerably to the speed of the above task and definitely warrants its use from the point of both efficiency and expense.

In November, 1951, 86 candidates wrote the examinations. Of these none failed completely and seven failed in not more than two subjects. Three of the total were rewrites.

In May, 1952, there were 80 candidates. Six of those failed completely and 11 failed in not more than two subjects. Three of the total were rewrites.

In spite of the fact that this is a very good record, there is still a definite need for improvement in the knowledge of protection from radiation. There is also need for better understanding in the application of physics. However, generally speaking, the standard is definitely improving from year to year.

It has been noted from dates appearing on the candidates' papers that some are writing both divisions 1 and 2 on the same day. According to the regulations (p. 101, Vol. 5, 1948 *Focal Spot*), Part I is to be written on the Friday and Part II on the Saturday in each instance.

I wish to point out that it is only in case of *emergency* that the local executive has the authority to change either of these dates, and then only a maximum of 24 hours either way, and *providing* that the *entire group* writing in that province do so at the same time.

We consider this important both from the candidates' and the examiners' point of view.

There has been some question as to the value of the present method of submitting radiographs as a true indication of the candidates' ability to do Radiography. Your Board of Examiners is prepared to discuss an alternative and suggests that one such alternative which might be considered is that of having an oral quiz based on a practical demonstration of positioning, etc.

This would involve local assistance in the form of an oral examiner to conduct that portion of the examination who would in turn report his or her results to the Board of Examiners.

Such a method, if accepted, would also involve legislation authorizing the Board of Examiners to appoint such local assistants.

There also seems to be a need for clarification as to the responsibility of the Board of Examiners to those applying for membership in C.S.R.T. through the recent reciprocal arrangements. We hope this matter will be clarified at this meeting.

We have completed another successful year in which we received complete co-operation from all concerned. I wish to take this opportunity of thanking all who so kindly co-operated in the past year and especially the secretaries of the provinical Societies.

I also wish to express my appreciation to my fellow committeemen of the past year, Dr. Jutras, Mr. Bodle, Mr. Doern and Miss Gundrum for their untiring efforts.

—R. A. McPHERSON, M.D.,
Chairman.

Report of the Registrar

I hereby submit the Registrar's Report for the period Sept. 1st, 1951, to Sept. 1st, 1952.

It is becoming increasingly difficult to have the Roster made up in time to be printed in the Spring issue of our Official Journal, *The Focal Spot*. We have regulations which state "Any member who has failed to pay the annual membership dues by February 15th of the current year, shall be considered in arrears." And "No member who is in arrears for dues shall vote, hold office or be entitled to receive reports of the transactions of the Society." Had these regulations been adhered to this year, about half of the members would not have had their names appear on the Roster, nor would they be entitled to vote at this Annual Meeting.

In consideration of the Member-Society Secretaries and the Officers of the C.S.R.T. concerned with the payment of dues and the printing of the Roster, it is going to be necessary to enforce these regulations in the future. Therefore, I urge all members to pay their dues to their Member-Society Secretaries, not later than Feb. 15th, these dues must then be sent, by the Member-Society Secretaries, to the Registrar, not later than March 1st. I am sure, with this reminder, the members will co-operate to the fullest extent.

Paid up members from each Province are as follows:

	Ordinary	Associate	Radiologist	Life	Hon. Life
Nova Scotia	40	....	....	....	
New Brunswick	39	3	....	....	
Quebec	148	8	1	1	
Ontario	149	2	....	2	
Manitoba	66	....	....	2	
Saskatchewan	61	2	....	....	
Alberta	56	1	1	1	
British Columbia	80	5	....	....	
U.S.A.	3	....	....	....	
Making a total of	642	21	2	5	4

Membership cards were issued to these members directly from the Registrar's office.

Certificates for the November 1951 examination were issued in February of this year, but I regret that, due to vacations, I have had some difficulty obtaining the signatures for the Certificates of the May 1952 examination. These certificates are still not completed. From the results of these two examinations, 138 certificates were printed in English and 20 certificates printed in French. Thirty-three candidates were under the age of 21 years, therefore, their certificates are being held at the Registrar's office, until these members become 21 years of age.

Six certificates were issued to members who had not previously obtained them.

Fourteen members have been accepted through reciprocity. Certificates will be mailed to these members as soon as they have been completed.

A purchase authorization slip has been issued and enclosed with each certificate sent out.

It was decided to give each member a registration number. This was done, and the member's registration number appears on his membership card. In order to eliminate errors, where there may be two members with the same name, I would suggest that, in any correspondence with the Registrar, the member quote his registration number.

The Transfer of Membership Forms, decided upon at the Winnipeg Meeting in 1951, were made up and a number of these forms sent to each Member-Society Secretary on May 15th of this year.

I wish to thank the members of the Board of Directors, the Secretary of the C.S.R.T., the Board of Examiners and the Member Society Secretaries for their co-operation in the past year.

Respectfully submitted.

—(Mrs.) MINA STEWART, R.N., R.T.,
Registrar, C.S.R.T.

Report on "The Focal Spot"

The present report covers the four issues from Summer 1951 to Spring (or No. 2) 1952. Issue No. 3 has also been published but in order to keep the statistics in groups of four for comparison this has not been included in the figures.

The number of pages published was almost the same—an average of 52 pages per issue in the more recent period as compared with 54 in the 1950-51 period. This slight decrease is negligible as it merely reflects the way in which the copy happened to fit in; it is quite possible that the amount of reading material was the same, but that it was necessary to space it more closely.

In the 1951-2 period 19 articles were published compared with 23 in the earlier period, but they were somewhat longer articles as they occupied only five pages less—67 pages compared with 72.

C.S.R.T. material increased considerably, there being 64 pages (including the Registry) compared with 51 pages (including Registry) in 1950-51. Without the Registry the figures are 55 pages compared with 44. The Registry itself was bigger this year, using nine pages more closely spaced than the seven pages of 1951.

Provincial News took a little less space in the recent period than in the earlier—40 pages compared with 45, but if the No. 3 issue were included the total would probably be about the same as last year, as there was a good deal of Provincial News in that issue.

Circulation continues to show a small but steady increase. 5,700 copies were printed in the period under review against 5,550 in the earlier period.

We have continued to use the less expensive, somewhat yellow paper as mentioned in the 1951 Report, although we would very much like to get back to the crisp white stock we had until costs went up last year.

It will have been noticed that during 1952 we have been numbering the issues instead of titling them by seasons. The so-called "Winter" issue was so late we were ashamed to call it anything but "Number 1." This is always a difficult issue to get out on time—the time when material should be under preparation and sent in from outside sources is cut into by Christmas preparations and by Christmas itself.

Delays on such a scale this are very discouraging to your Editor after he has given all his spare time working intensively to push the magazine out on time. So this year I would ask the Sub-Editors and other contributors to start early in November sending in their material for Issue No. 1, 1953.

No. 2—the Spring issue—is usually difficult to get out on time because of the Registry. Apparently the beginning of April is as early as we can hope to get the Registry material in the Editor's hands. This year your Registrar was particularly prompt and thorough but her work was to a certain extent nullified by the late receipt of the returns from one society, which arrived after the otherwise complete Registry had come in from the Registrar.

So may we once again stress the importance of members paying their dues within the time allotted at the beginning of the year and of secretaries getting their paid-up membership lists in to the Registrar before the stated deadline.

After the very late Number 1 issue the printers rose to the occasion nobly and the two following issues were published with intervals only two months between issues, thus bringing us up to schedule once again.

Your Editor has been honored by being appointed Publicity Chairman for the 1953 International Convention and has already sent a certain amount of material to "The X-Ray Technician" in the States. Later this publicity will be extended to other journals. I have also made arrangements to visit the Editor of "The X-Ray Technician" in Minneapolis on my return trip from this convention.

Through the generosity of the Board of Examiners of the C.S.R.T., we were enabled to offer two *Focal Spot* Awards; for the best article published in 1952 by a Registered Technician and for the best by a Student Technician. We regret that we cannot say that this has resulted in a deluge of articles, but we hope that as the offer becomes more widely known it may have a stimulating effect on the article situation. We certainly greatly appreciate the thoughtfulness of the Board of Examiners in making this offer, and believe we are correct in understanding that it will be repeated for 1953.

An innovation in the latest issue was a section called "Keeping in Touch." The Editor concocted it himself of items culled from the Pro-

vincial News in order to give it a start. However we hope that in the future it may be self-starting, if members and secretaries will remember to notify us of changes of location. Every issue the Circulation Manager, Mr. Menagh, gets a number of copies of the magazine returned by the Post Office marked "Address Unknown" and we pay three cents for each one returned. Moreover the member does not receive his copy of *The Focal Spot*. A number of people write in six months or more later and want to know why they are not receiving their magazines any more and yet they have never notified us of their change of address. "Keeping in Touch" would serve as a supplement to the Registry and should be used by all, whether their names are in the Registry or not.

In conclusion we would again like to thank all those—Officials, Secretaries, Sub-Editors, Contributors, Distribution and Business Managers and Advertisers who by their willing and helpful co-operation make the production of *The Focal Spot* possible.

Respectfully submitted,

—L. J. CARTWRIGHT, R.T.,
Editor, *The Focal Spot*.

Report of Committee on Technical Training

The activities of the Committee on Technical Training during the year 1951-1952 have been somewhat curtailed owing to a variety of unforseen circumstances.

At a joint meeting of the representatives of the Examining Board with Dr. Gill and with the Committee on Technical Training held at the Annual Meeting in Winnipeg in 1951, it was decided that this Committee would have as project for this past year, work on the curriculum when this was received from Dr. Petrie.

Owing to Dr. Petrie's long illness and convalescence, no word of the curriculum was received until June. Hence the Committee has had a very limited opportunity of studying and making further suggestions on the subject matter of the curriculum.

It is the opinion of this Committee that they would be much assisted in their work for the furtherance of Technical Training, if they could receive some advice either from the Annual Meeting or from the Board of Directors concerning the project it is desired that they should study during each year.

Respectfully submitted.

—SISTER MARY LORETTO, R.T.,
Chairman, Committee on Technical Training.

Report of the Committee on Law

Two main tasks were referred to the Committee on Law by the General Meeting at Winnipeg.

First: to draw up an explanation of the Proxy vote to be published in *The Focal Spot* for the information of all members.

This was done and appeared in *The Focal Spot* No. 3, 1952.

Second: to gather together from the verbatim reports of the Annual Meetings, all Rules and Regulations which have been approved at these meetings to govern the affairs of the Society.

This proved to be a lengthy task due to the verbosity of the reports at times and complicated by the occasional absence of details on the exact matter being discussed.

However, it was eventually completed and copies sent to the President, Mr. W. Q. Stirling, and to the Secretary, Mrs. E. I. Hood. This material should be more widely available for reference and some plan for its publication might well be made at this meeting.

One of the incidental findings as a result of this work was that no committee had ever been set up to operate the Pool Fund although it has been in existence since 1947 at least. We have, therefore, drawn up some Regulations governing the Pool Fund for presentation at this meeting for your approval. Part of these have been approved at previous meetings but are here consolidated into one statement.

I would like to take this opportunity to thank my fellow committee members, Mrs. Mary Cameron and Mr. W. R. Beatteay for their prompt and ready assistance in the completion of this work.

Respectfully submitted,

—MARY McMILLAN, R.T.,
Chairman.

—MRS. MARY F. CAMERON, R.T.,
Member.

—MR. W. R. BEATTEAY,
Member.

Committee on Law, C.S.R.T.

Report of the Resolutions Committee

Seven resolutions were received by this committee for consideration during the current year. Following investigation and study, five of these were accepted for presentation to this meeting. One resolution was withdrawn by the sponsor after preliminary investigation into same and the remaining resolution is being withheld from general presentation at this time, but will be drawn to the attention of the Board of Directors and the special committees involved during this 1952 Annual General Meeting. One resolution from last year is tabled for further discussion and consideration at this meeting and will no doubt be accompanied by the recommendations of the members specifically appointed to further investigate the problems involved regarding it.

It is the belief of this committee that the resolutions being presented this year are of an especially constructive nature and therefore worthy of your full and careful consideration.

Your committee would recommend that the names of all members on Standing Committees for the current year be added to the proposed condensed reports of the proceedings of the Annual General Meetings as outlined in Resolution No. 1.

In order to clarify any misimpressions regarding Resolution No. 3 your committee feels obliged to point out that the intent of this resolution, as explained by the sponsors of this resolution, is merely to gain recognition by the C.S.R.T. for the described text; and that in adopting this resolution the Society is in no way committing itself to necessarily accepting this as the standard text of the C.S.R.T.

Resolution No. 5, if adopted, will entail additions to By-law 51. Section 2 of said By-law will have to be enlarged to make provision for the proposed new classification of membership and a new section, which assumedly will follow the present section No. 11 of the By-law, will have to be added to classify this proposed new type of member, and also to outline the rights and privileges of such group.

Copies of all accepted resolutions were as usual sent out to all members of the Board of Directors as well as to the Secretaries of each of the Member-Societies early in July. This committee would also like to congratulate the Editor and Staff of the official journal *The Focal Spot* for their early publication of the pre-Convention issue which included a list of the resolutions to be dealt with at this meeting.

Your Committee wishes to thank all those who submitted resolutions and who thus have shown their interest in the progress of the Society; also the members of other committees and Society officers who have assisted this committee with their helpful suggestions and advice.

As Chairman of the Resolutions Committee I wish to voice my sincere appreciation to my two fellow-committee members, Miss Marna Reed and Mr. Douglas Penley, for their keen interest and able assistance in this work during the past year.

Having completed my term of office on this committee, I would solicit for my successor the same kindly consideration that has been shown to me during the time I have held the position as Chairman of the Resolutions Committee.

On behalf of the Resolutions Committee I have been instructed to submit this report and to move its adoption.

—R. E. GORE, R.T.,
Chairman, Resolutions Committee,
C.S.R.T.

Report of Historian

Following the earlier history which was presented in the form of a thesis by Sister Mary de Lellis in 1948 and published in two instalments in *The Focal Spot*, the story of our Society from 1948 to 1952 has been summarized in outline form. The more detailed work originally planned has been curtailed due to the very limited time at the disposal of the present Historian. While I should like very much to complete this project and present it in a form worthy of its content, nevertheless in view of the requirements of a very full teaching program here during the coming year, it seems only prudent to request the Board of Directors to appoint a new Historian who will carry forward this project.

Respectfully submitted.

—SISTER EDMUND CAMPION, R.N., R.T.,
Historian, C.S.R.T.

Tenth Annual General Meeting

Canadian Society of Radiological Technicians

Calgary, Alberta, Sept. 3 to 6, 1952

Summary of Minutes condensed by the Editor

First Session, Wednesday, September 3rd, 1952

The meeting opened at 2.00 p.m. with Mr. J. L. Welch, President of the Alberta Division in the Chair. After the singing of the National Anthem, Dr. K. D. Symington welcomed the members on behalf of the Alberta Radiologists. Mr. J. L. Welch also gave an address of welcome and introduced Mr. W. Q. Stirling, President, C.S.R.T.

MR. STIRLING: Mr. Chairman, Reverend Sisters, ladies and gentlemen, welcome to the City of Calgary on this 10th, our Annual Meeting. I would like to draw your attention to the official gavel and Board. It was presented to the Society by our beloved Past President, Mr. H. M. Welch. I hope that in fifty years from now the Board will be all silver. The gavel was presented to the Sociey by one of our prominent oldtimers, Mr. C. J. Bodle. Some time during this meeting I would like you to inspect these two.

The following Directors were present:
Mr. W. Q. Stirling, British Columbia.
Dr. G. Gill, Montreal.
Mrs. E. I. Hood, British Columbia.
Mr. Roy Hendra, Alberta.
Mr. Darrel Liston, New Brunswick.
Mrs. Mina Stewart, Manitoba.
Mr. Albert Perry, Nova Scotia.
Mr. John Collins, Ontario.
Mr. P. E. Hunt, Saskatchewan.
The following Official Delegates were present:
Mrs. Ethel Yerex, Alberta.
Miss Mary McMillan, British Columbia.
Mrs. Catherine Coulson, Manitoba.
Miss Helen MacKinnon, New Brunswick.
Mr. A. J. Stechyshyn, Ontario.
Mr. Henry Meadus, Quebec.
Mr. Douglas Penley, Saskatchewan.
S. B. P/O Reg Potts, Nova Scotia.

Reports of Committees were then read. (These are printed in full elsewhere in this issue.)

Progress Report on 1953 International Convention by the General Chairman, Mrs. Mary F. Cameron was read, in her absence, by Miss Jane Martin. (A condensation if this is printed elsewhere.)

MR. STIRLING: I think that we should give Mrs. Cameron a hearty vote of thanks for the work she has done and the success she has attained during the last six months.

It was moved by Mr. Collins and seconded by Mr. Perry that a telegram of congratulations and thanks be sent to Mrs. Cameron, with a notation regretting that she was unable to attend.

Therapy Resolution

A Resolution submitted by the Ontario Society at the 1951 Annual Meeting was then brought up for reconsideration. (It appeared in *The Focal Spot* 1951, page 136, and was identified as Number 6. It proposed admitting Therapy Technicians under a separate set of examinations.) The Resolution was read by Mr. Penley.

MR. STIRLING: With regard to this particular Resolution from the Ontario Society, those who attended the Winnipeg Meeting last year will probably remember that it was tabled for one year to give everyone an opportunity to delve into the factors which might be involved. The Ontario Society were the sponsors and I am going to ask Mr. Collins if he can add anything to this.

MR. COLLINS: This matter still warrants the attention of the Canadian Society. I would like to find out now if any of these committees have taken this under consideration.

MR. DOERN: Has this been discussed at the Directors' Meeting this year? If not, in view of this and in order to save time, may I suggest that this be discussed at the Directors' Meeting and be brought back to the general body. CARRIED.

Meeting adjourned.

Second Session, Annual Business Meeting, 10.00 a.m., Thursday, September 4th, 1952

MR. STIRLING: Since meeting yesterday I have received two telegrams which I would like to read at this time. One is from Mr. George Reason, who, as you know, has been suffering a long illness but sends a message for the

success of the convention. The other is regarding the condition of Mr. Percy Ghent, who was taken ill while travelling to this meeting and had to be admitted to the Winnipeg General Hospital.

The Report of the Board of Examiners was then read by Mr. Doern.

MR. STIRLING: That was a very splendid Report, Mr. Doern, and certainly we can see from this that the Board of Examiners is in a good financial position. The Board of Examiners has made some recommendations and these were dealt with at the Board of Directors' Meeting yesterday and will be turned over to the Committee on Technical Training for further study.

Two-Day Writing for Exams

SISTER LORETTA: I would suggest that in many instances it would be better to have examinations written in one day. From the students' point of view most students would prefer to write all papers in one day. Most students in Victoria have asked that they write in one day.

MR. BODLE: One of the chief complaints that we have had in the past was letters of complaint from students about having to write in one day and that was the reason for this being incorporated in the rules of examination.

MR. STIRLING: Is it the intention of the Board of Examiners to enforce the two-day period?

MR. DOERN: We are in a position to do nothing else but enforce it. There have been instances where students have written in one sitting. So far we have to enforce a two day period.

MR. STIRLING: In British Columbia they prefer to take it in one day.

MR. DOERN: If someone wrote the paper in Manitoba to-day they could easily communicate the paper to the group that was writing the paper next day. The one day clause is only in case of emergency.

It was decided that the two-day rule should be enforced, except in an emergency.

Curriculum: Mr. Stirling next outlined the distribution of the new printed curriculum booklets, which the various training centres and societies will receive shortly.

Resolutions were presented by Mr. D. Penley. (These resolutions can be read in their entirety on page 138 of 1952 *Focal Spot*. To save space and for the sake of clarity the gist only is given here.)

Resolution No. 1: Submitted by Miss Mary McMillan, Chairman, Committee on Law. Resolution advocates abbreviation of Minutes to their essentials, except for a few master copies. After discussion it was moved by Mr. H. Meadus and seconded by Miss J. Goodall that resolution be adopted. CARRIED.

Resolution No. 2: Submitted by Manitoba Division, C.S.R.T. Resolution advocates placing a seal for current year on all certificates.

MR. DOERN: I am sure you all know instances in which certificates are being displayed which are not valid, because members have not paid their dues to the Society. That is common knowledge and it causes a lot of hard feelings. We would like to see something on the certificate which would indicate whether or not the holder of the certificate had paid the dues. There is no way of knowing where all these registrants go to and in some cases people are not paying their dues but are taking all the privileges without helping to keep the Society in a good financial state.

MR. CARTWRIGHT: Do you suggest having a current year seal put on the certificates?

MR. COLLINS: I think if a Certificate is framed the seal should be put on the outside of the glass and it could be removed each year.

It was moved by Mr. Stewart and seconded by Mr. Collins that the Resolution be adopted. CARRIED.

Resolution No. 3: Submitted by the Alberta Division, C.S.R.T. Resolution advocates recognition by C.S.R.T. for use throughout the Dominion, of a text book on Anatomy and Physiology prepared by and at present in use by the Alberta Division.

DR. MALLET: It has been our privilege to teach Anatomy for 10 years. Our difficulty has been that there has not been a book which we could refer students to. This book is an accumulation of things we have learned over the years. For my part I would like to see the Society take this as a prescribed book so that there would be uniformity of teaching. That is our sole reason and I would like to make it clear here that financially I am in the hole and the Society could not sell enough books to get us out of the hole. There is no financial gain in this as far as I am concerned. The only thing I can get out of this book is satisfaction in knowing taht I have found something of value for the Society.

MR. STIRLING: It has been recommended that it be turned over to the Committee on

Technical Training and the Board of Examiners. We are only trying to clarify the situation. We will probably have word on this within 30 days or two months at the latest.

MR. CARTWRIGHT: I think the Canadian Society is fortunate in having had Dr. Mallet produce this book and it seems that it should be adopted as a uniform text book for the whole Dominion.

It was moved by Miss McMillan and seconded by Mrs. Stewart that this Resolution be adopted in its correct form. CARRIED.

Resolution No. 4: Submitted by the Directors of *The Focal Spot*. Resolution requests a grant from the C.S.R.T. towards cost of printing the Registry in *The Focal Spot*.

MR. L. J. CARTWRIGHT: Production of our journal is expensive. Our circulation does not increase in proportion to the number of student members. Last year the rising cost of paper necessitated raising the price of the magazine or reducing the quality of the paper. We chose the latter course. The cost of illustrations has also advanced considerably. Moreover the pages used for the Registry are a loss as regards reading material. I would like to enlarge the issue in which the Registry appears to bring the number of pages of reading material back to normal.

It was moved by Mr. Meadus and seconded by Mr. Potts that the Resolution be adopted. CARRIED.

MR. STIRLING: I think we can decide the amount of the grant the C.S.R.T. can extend to *The Focal Spot* in this regard. I wonder if you would get in touch with me, Mr. Cartwright, and give me a tentative figure on the costs.

MR. CARTWRIGHT: I will do that.

Resolution No. 5: Submitted by the Vancouver Branch, B.C. Division, C.S.R.T. Resolution advocates formation of a new class of membership —"Non-active"—for those members not now doing x-ray work but desirous of keeping in touch with the Society.

MISS PURDY: In Saskatchewan members pay no fee if they are transferred to this inactive list. They must let the Registrar know if they wish to be transferred to the inactive list or they would be liable for all the back dues.

MISS McMILLAN: How long would a member on the non-active list be expected to pay?

MR. STIRLING: If we adopted this Resolution we would have to decide the amount and other details.

MR. CONNELL: If this Resolution goes through would the Constitution have to be changed?

MR. STIRLING: Yes.

It was moved by Miss McKinnon and seconded by Miss Muirhead that the Resolution be adopted. CARRIED.

Third Annual Business Meeting, 10.00 a.m., Friday, September 5th, 1952

Mr. Stirling read the document on reciprocity between the Society of Radiographers and the C.S.R.T. and expressed his pleasure at this consumation.

Therapy Resolution

The Board of Directors have been busy this morning. Yesterday, we had one Resolutioo which in 1951 had been tabled for one year and at yesterday's meeting was referred back to the Board of Directors for further study. It was decided this morning that this Resolution covering separate certificates for Radiographic Technicians and Therapy Technicians be referred to the C.A.R. and our own Society for further study and after it has been studied, the Board of Directors will be notified and will be able to bring in a report in 1954. We feel sure that there are not a great number of Therapy Technicians involved at the present time, but it should be thoroughly investigated, and we feel we have done what is necessary and right.

MR. HUNT: Would you announce the names of the Chairmen of these two committees?

MR. STIRLING: Sister Loretta is the chairman at the moment. The Chairman of the C.A.R. is Doctor Petrie.

MR. CARTWRIGHT: There are a number of Therapy Technicians at present who are unable to join our Society, are there not?

MR. STIRLING: I am not aware of this.

MR. CARTWRIGHT: Are you proposing an arrangement by which they can be admitted to the Society on Therapy alone? At the Toronto General Hospital there must be a number of Technicians who do nothing but Therapy. They may form a Society of their own if they have to wait indefinitely to get into ours.

MR. STIRLING: No provision has been made because it has not been brought to our attention that there were many cases of that nature in Canada at this time.

MR. HUNT: I would like to recommend that in the meantime the various Provincial organizations might admit these people to local membership under some classification. It is indicated

that the avenue of membership in the national group is by way of our standard examinations.

DELEGATE: Anyone who is writing Therapy must write Diagnostic papers. There are people doing Therapy only but they have to be qualified in Diagnosis as well.

MR. STIRLING: We take our cue from the American Society. They have not thought it necessary to separate the two groups. Mr. Hunt told me this morning that the training of either group in the Old Country is very complete during the first year. In the second year they go to either Diagnostic or Therapy. The first year is taken up on subjects relating to either diagnosis or Therapy or Diagnosis only. The same thing would apply in Canada where we have training schools which are training students as we think they should be trained, and I am sure that after such training the applicant would pass his examination.

MR. COLLINS: We in Ontario were the sponsors of this Resolution. We felt that in the future we would have to do something for this type of Technician. In Ontario we have a number of Therapy Technicians coming up at the present time and the question has to be dealt with eventually. If we refer this to the committees I think they will bring in a report that we will have to recognize this type of Technician.

DR. GILL: In regard to this Resolution, I can say little. Judging by the experience of Great Britain and the United States I do not think it would be wise to separate the two. It is true that it has been separated as far as the certification is concerned. I think the Therapy Technicians will gain in obtaining sufficient training in radiography and the general handling of x-ray equipment. The Diagnostic demand will always be the greater. This has to be taken into consideration for the benefit of the Society.

Resolution shelved until 1954.

Mr. Stirling mentioned several matters which had been dealt with at the Directors' Meeting.

MR. STIRLING: We dealt with the Resolution regarding the stenographic notes and that has been completed.

We have confirmed the appointment of Mr. R. Curran as our Solicitor. He is with the Department of Health and Welfare in Ottawa and he is Honorary Solicitor for the C.A.R. He will be willing at all times to assist us in legal matters.

We have been asked by the Canadian Hospital Society if we would be willing to contribute to the cost of film strips to be shown all over Canada. We agreed to that and since then there has been nothing further from the Hospital Council.

We discussed at the Board of Directors' Meeting the explanation in the use of the Proxy vote. Apparently there was some confusion in the minds of our members as to what should be done with this particular proxy. The trouble arises from the fact that the Proxy should be sent to the Delegate. We have decided that it should be sent to either the Secretary or to the official delegate. Sometimes the members do not know who their official delegate is and they do not know where to send it. So, we feel it should go to the Secretary. There must be enclosed with the Proxy Vote instructions as to how they wish to vote.

We have decided what is to be done about Technicians under 21. In the case of Technicians who have successfully passed their examinations, they will receive from the Registrar a letter advising them that they have successfully passed the examination and their certificates will be mailed and they will be asked to pay the student fees until they have reached their majority."

NEW BUSINESS

The Pool Fund Committee was set up a number of years ago under the supervision of the late Mr. Welch. Nothing has been done about the formation of such a committee. (Mr. Stirling read paper on the Pool Fund.) The Chairman of this Committee will be appointed at the next Meeting.

Mr. Meadus read a paper on Standard Wage and asked that it be discussed at this Meeting.

MR. HUNT: By whom was this paper submitted?

MR. MEADUS: The Quebec Society. I think we should bring this up because it is important to all members of the C.S.R.T. and I might add that it might be helpful to the Radiologists.

MR. STIRLING: There is a definite problem involved here because the wage scale varies from one Province to another. This should be dealt with at the Provincial level.

MR. HUNT: I would recommend that the Executive officers of the Quebec organization take this recommendation to the Hospitals Association if there be one in Quebec and if not take it to the Canadian Hospital Council and discuss it with them.

MR. LISTON: In New Brunswick we went before the Hospital Association and we didn't get anywhere. We wrote a letter to the hospitals asking them if they would increase the wage scale. The only way wo got it was dealing with other local hospitals.

MR. STIRLING: The same thing is being done in Manitoba and I don't know if other member societies are working on it or not. In our Act we can specify hours of work, etc. In British Columbia the first thing we had to do was obtain documentation from the C.S.R.T. to prove to the Provincial Government that we were a member society of the C.S.R.T. The next thing was to change the Constitution. We had legal advice on that and we have changed our Constitution and the next thing is to apply under the Societies Act of British Columbia. The two Constitutions and the clearance from the C.S.R.T. must be presented to the Provincial Government. After we have been incorporated under the Societies Act then we can pass it through the British Columbia Legislature. We do not expect to get this through for the next two years.

MR. STIRLING: It is very apparent that we must advise Mr. Meadus that as far as establishing salaries is concerned it cannot be touched by the Canadian Society.

MR. COLLINS: That is a Provincial not a Federal matter.

MR. STIRLING: We are very definitely covered in the British North America Act.

MR. CONNELL: In Saskatchewan we work along similar lines as in British Columbia. Two or three years ago this matter was brought up regarding salaries and a thorough investigation was made and the committee decided that the matter should be dropped.

MR. MEADUS: I would like to thank the members for the information they have given me.

SELECTION OF NEXT PLACE OF CONVENTION

Two invitations were presented to the Meeting—one from New Brunswick and one from Quebec.

After discussion it was decided that the Meeting would be held in Saint John, New Brunswick.

ELECTION OF PRESIDENT

After counting the ballots it was announced that Mr. Percy Hunt of Regina was elected President for 1953-54.

It was moved by Mr. Liston and seconded by Mr. Cheffins that a cordial vote of thanks be extended to the Alberta Division for the splendid manner in which the Convention was conducted. CARRIED.

MR. STIRLING: During my term as President I have tried to uphold the tradition of the Society. I would like to express my sincere thanks and appreciation and I do hope that I have not been too obnoxious in conducting these Meetings. Thank you for your kindness.

MR. HUNT: Mr. President, ladies and gentlemen, I accept the Board and Gavel with full awareness of the responsibility that go with these instruments. I shall be guided in large measure by what has been built into the organization by my predecessors in office, with many of whom it was my privilege to collaborate over the years. I hope that anything I may do or say will in no way tarnish the prestige which your organization holds.

Mr. Liston moved that a hearty vote of thanks be extended to Mr. Stirling.

Meeting adjourned.

Special General Business Meeting, Saturday, September 6th, 1952

A Special General Business Meeting was held at 9.20 a.m. for the purpose of adjusting various legal matters in the constitution and by-laws due to some changes as itemized in a notice sent to all members in August, as follows: New clause to be added to "Aims and Objects." Revision of Section 8 to cover Reciprocal Agreements. Several clauses in Section 36 received an additional phrase—"Unless otherwise determined by the Board of Directors." Added to these were changes caused by the passing of the resolution creating a new group known as "Non-active Members." All these amendments were carried.

Condensation of Progress Report

FIRST INTERNATIONAL CONVENTION, A.S.X.T. AND C.S.R.T.

JUNE 28th TO JULY 2nd, 1953

as presented by the General Chairman, Mrs. Mary F. Cameron, R.T., at the Calgary Convention

A BLOCK of 500 rooms has been arranged at the Royal York Hotel, Toronto, for the accommodation of those attending. In accordance with hotel regulations, 350 of these are double rooms and 150 single. The room rates are as follows: double rooms $5.75 and $6.00 per person; single rooms $7.50 and $8.00 per person. With the thought of students and junior technicians in mind, a special arrangement has been made for 20 rooms to accommodate three people each. The room rate for these rooms will be $5.00 per person.

EXHIBITS:

Convention Mezzanine.

Exhibits will be set up on Saturday p.m., June 27th, and arrangements are being made for the required amount of 60-cycle current, also all view boxes.

SUNDAY, JUNE 28th, 1953

11.30 a.m.	"Brunch," Ball Room.
2.00 - 4.30 p.m.	Combined Assembly A.S.X.T. and C.S.R.T. Accommodation for 1800 people.
8.30 p.m.	Concert in Concert Hall—Mr. Douglas Bodle, A.C.C.O., Organist; Miss Elizabeth Grey, C.B.C., Soprano.

MONDAY, JUNE 29th, 1953
REFRESHER COURSE ROOMS:

Eight refresher courses are being presented with four Canadian and four American lecturers. Rooms have been reserved for these courses from 8.00 to 10.00 a.m. each morning as follows: Parlours A, B, C & D, private dining rooms 8, 9, 10 and the library. Arrangements have been made to have small tables in each room and a platform for the lecturer. Further properties are being arranged for by the properties chairman. These rooms vary in size; some will accommodate 250, others 60 persons. These rooms have all been inspected and approved by Miss Mary Adkins, Refresher Course Chairman, who is very pleased with the set-up.

10.00 - 12.00 a.m.	C.S.R.T. Business Meeting (250 persons).
12.30	Luncheon, Ball Room (350 persons). (Sponsor: O.S.R.)
Evening	Buffet Supper. (Picker X-Ray Corps, Can. and U.S. hosts.)

TUESDAY, JUNE 30th, 1953

10.00 - 12.00	A.S.X.T. Business Meeting (1800 persons).
10.00 - 12.00	C.S.R.T. Business Meeting (250 persons).
12.30 p.m.	Luncheon, Ball Room. (Sponsors: P.Q., N.B. and N.S. Societies.)
2.00 - 4.00	A.S.X.T. Business Meeting.
9.00 - 12.00 p.m.	Dancing at Casa Loma (Toronto's "Fairy Tale Castle").

WEDNESDAY, JULY 1st, 1953

10.00 - 12.00	A.S.X.T. Business Meeting.
10.00 - 12.00	C.S.R.T. Business Meeting.
12.30 p.m.	Luncheon, Concert Hall. (Sponsor: N.Y. Society of X-Ray Technicians, Inc.)
8.30 p.m.	Travel Movies by Miss Ruth Jaffke, R.T.

THURSDAY, JULY 2nd, 1953

10.00 - 12.00	A.S.X.T. Meeting.
10.00 - 12.00	C.S.R.T. Meeting.
12.30 p.m.	Luncheon, Ball Room. (Sponsor: A.S.X.T.)
6.00 p.m.	Cocktail Party.
7.30 p.m.	Dinner and Dance, Concert Hall (600 persons). (Sponsor: C.S.R.T.)

CONDENSATION OF PROGRESS REPORT

CANADIAN AWARDS:

Through the generosity of various medical associations, the following amounts have been subscribed as awards for scientific papers and exhibits:

(1) Canadian Association of Radiologists—$150. It was the request of this Association that this money be designated as follows: $75 for best paper; $50 for second best paper; $25 for third best paper. It was stipulated by this Association that the judges should be chosen by the C.S.R.T.

(2) Ontario Medical Association—$100. This amount to be allotted at the discretion of the Scientific Committee.

(3) Canadian Medical Association—$100. This amount also to be allotted at the discretion of the Scientific Committee.

(4) McGregor Clinic—$100. This money was contributed with the stipulation that $50 be designated as a "Guest Award" from Canada to an A.S.X.T. member—either for a scientific paper or an exhibit. The remaining $50 of this donation to be given for the most original technical paper from a research standpoint.

The President of the C.S.R.T. has already been notified of these awards and agreed to the recommendation that the choice of papers to merit 1st, 2nd and 3rd prizes be left to the Scientific and Radiological Advisory Committees.

COMMITTEES:

Personnel of committees is now complete with committee members appointed from every province in Canada. Further clerks are needed for registration and refresher course committees and letters of invitation have been sent to several members to serve in this capacity.

In conclusion, there has not been one moment's lack of co-operation during the working out of these plans. May such a spirit continue even beyond their fulfilment.

This report is respectfully submitted by:

MARY F. CAMERON, R.T.,
General Chairman,
First International Convention
A.S.X.T. • C.S.R.T.
1953.

Convention Committees

FIRST INTERNATIONAL CONVENTION — ASXT-CSRT

June 29th to July 3rd, 1953

General Chairman
Mrs. Mary F. Cameron, R.T.
250 Main Street East,
Hamilton, Ontario.

Co-Chairman
W. Raymond MacInnis, R.T.,
Glen Lake Sanatorium,
Oak Terrace, Minnesota.

Advisory Committee

Dr. A. C. Singleton, Honorary Chairman.
Medical Arts Building,
Toronto, Ontario.

Dr. Desmond T. Burke, D.M.R., Chairman.
X-Ray Department,
Sunnybrook Hospital,
Toronto, Ontario.

Dr. Guillaume Gill,
Institute du Radium,
4120 Ontario Street East,
Montreal, Quebec.

Dr. James F. Lofstrom,
410 Kales Building,
Detroit 26, Michigan.

Dr. E. G. Eschner.
2577 Main Street,
Buffalo, N.Y.

Dr. John G. Stapleton.
McGregor Clinic,
Hamilton, Ontario.

Dr. R. G. Willy.
636 Church Street,
Evanston, Ill.

Finance Committee

Chas. G. Robb, R.T., Chairman.
Department of Radiology,
Toronto General Hospital,
Toronto, Ontario.

Mrs. Genevieve J. Eilert, R.T.
16 Fourteenth Street,
Fond du Lac, Wisconsin.

Exhibit Committee

Louis Stanizewski, R.T., Chairman.
X-Ray Department,
Sunnybrook Hospital,
Toronto, Ontario.

Mrs. Florence Mushrush, R.T.
1075 Grandon Avenue,
Columbus, Ohio.

K. Hall, R.T.
X-Ray Department,
Ottawa Civic Hospital,
Ottawa, Ontario.

R. Hendra, R.T.
601 McLeod Building,
Edmonton, Alberta.

W. Beatteay, R.T.
X-Ray Department,
Lancaster D.V.A. Hospital,
West St. John, N.B.

Lowell Peterson, R.T.
Chicago, Illinois.

CONVENTION COMMITTEES

Scientific Committee
Emma Smith, R.T., Chairman.
6922 Cresheim Road,
Philadelphia 19, Pa.

Wm. Doern, R.T.
X-Ray Department,
Winnipeg General Hospital,
Winnipeg, Manitoba.

P. E. Hunt, R.T.,
2058 McTavish Street,
Regina, Saskatchewan.

Publicity Committee
Leslie J. Cartwright, R.T.
Chairman.
Hospital for Sick Children,
Toronto, Ontario.

Paul Frederick, R.T.
Medical Department,
Workmen's Compensation Board,
330 University Avenue,
Toronto, Ontario.

Inez Thorpe, R.T.
337 West Durham Street,
Philadelphia 19, Pa.

Registration Committee
Mrs. Gladys MacVicar, R.T.,
Chairman (C.S.R.T.).
X-Ray Department,
Victoria Hospital,
London, Ontario.

Jean Widger, R.T., Chairman
(A.S.X.T.).
1244 West Philadelphia Street,
Detroit 2, Michigan.

Mrs. Dorothy Henderson, R.T.
X-Ray Department,
Muskoka Hospital,
Gravenhurst, Ontario.

Burton McBride, R.T.
Parry Sound General Hospital,
Parry Sound, Ontario.

Catherine Berg, R.T.
Route 6,
Wapakoneta, Ohio.

Neva Harley, R.T.
Halifax Infirmary,
Halifax, N.S.

Mrs. Catherine Coulson, R.T.
Suite 13,
Amboyd Apts.,
Norwood, Manitoba.

Sisters' Housing Committee
Sister Carmella, R.T.
Chairman.
St. Michael's Hospital,
Toronto, Ontario.

Sister Mary Loretto, R.T.
St. Joseph's Hospital,
Victoria, B.C.

Sister DeLellis, R.T.
St. Joseph's Hospital, X-Ray Dept.
St. John, New Brunswick.

Entertainment Committee
John Collins, R.T., Chairman.
c/o McKinnon Industries Ltd.,
St. Catharines, Ont.

Marian Snyder, R.T.
1165 West Water Street,
Elmira, New York.

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New York City, N.Y.

Ann Threlkeld, R.T.
1738 Foster Street,
Memphis, Tennessee.

Germaine Violette, R.T.
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Montreal, Quebec.

Ernestine Chiasson, R.T.
C.N.R. Medical Clinic,
Toronto, Ontario.

Hospitality Committee
Albert Perry, R.T., Chairman.
X-Ray Department,
Dawson Memorial Hospital,
Bridgewater, N.S.

Mrs. Rita Dinner, R.T.
R.R. No. 1,
Bracebridge, Ontario.

Verna Lukey, R.T.
687 Rhodes Avenue,
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R. McCaw, R.T.
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272 Roncesvalles Ave.,
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J. Guthrie, R.T.
Lockwood Clinic,
Toronto, Ontario.

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Toronto, Ontario.

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Margaret Bartram, R.T.
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913 West High Street,
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Jane Martin, R.T., Chairman
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Mary F. Hall, R.T., Assistant
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St. Lawrence Sanatorium,
Cornwall, Ontario.

Minnie Steski, R.T.
Winnipeg Clinic,
Winnipeg, Manitoba.

Mrs. Mary M. Reid, R.T.
Manitoba Clinic,
Winnipeg, Manitoba.

Albert Cheffins, R.T.
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Frank Weale, R.T.
793 Main Street East,
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Edith Champness, R.T.
Niagara Falls General Hospital,
Niagara Falls, Ontario.

Darrell Liston, R.T.
Lancaster Hospital,
St. John, N.B.

Douglas Penley, R.T.
Grey Nuns Hospital,
Regina, Saskatchewan.

Margaret Cockburn, R.T.
Toronto East General Hospital,
Toronto, Ontario.

Sarah Mitchell, R.T.
St. Joseph's Hospital,
Guelph, Ontario.

Agnes Muirhead, R.T.
Montreal General Hospital,
2300 Tupper Street,
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Shirley Watt, R.T.
c/o Dr. W. L. Harwood,
191 James Street South,
Hamilton, Ontario.

Elizabeth Hyslop, R.T.
General Hospital,
Guelph, Ontario.

Sister M. Victor, R.T.
St. Joseph's Hospital,
Hamilton, Ontario.

Mrs. Gladys Cassidy, R.T.
Toronto Western Hospital,
Toronto, Ontario.

One Technician from
Ottawa Civic Hospital,
Ottawa, Ontario.

Soeuer Michel des Sainte.
779 Ste. Julie Street,
Three Rivers, Quebec.

Refresher Courses

It is not too soon to make plans for 1953, and foremost among those plans should be your attendance at the first International Meeting of The Canadian Society of Radiological Technicians, and The American Society of X-Ray Technicians. The Refresher Course Committee proudly presents an outstanding group of instructors, with subjects covering many important phases of radiographic procedure. There is always something new and in order to keep abreast of the times and do the very best possible work, one must never relax his study and interest. You are therefore urged to register in one of these excellent courses and avail yourself of this opportunity for advancement in your chosen field.

For technicians desiring information in the broad field of "X-RAY PHYSICS" we present Mr. C. J. Bodle, R.T., C.S.R.T. of Winnipeg. Mr. Bodle is exceptionally well qualified to teach this difficult assignment, and we are most happy to list this excellent contribution to our educational program.

There is always something new in the field of "SPECIALIZED TECHNIQUES IN RADIOGRAPHY" and this subject will be presented under the able leadership of Mr. Charles G. Robb, R.T., C.S.R.T. of Toronto. Mr. Robb is well qualified to handle this difficult subject and to answer questions concerning your problems. We consider it a great privilege to present him in this broad and ever widening field.

"RADIOGRAPHY OF THE ENTIRE SPINE" will be presented by Mr. Louis Stanizewski, R.T., C.S.R.T. of Toronto. This is a very important field, and one in which new positions and new techniques are constantly being developed. Mr. Stanizewski will present his subject in a competent and interesting manner, and will be prepared to help solve your difficult problems. This course is recommended to anyone desiring further information on any phase of spine radiography.

To many technicians the problem of "RADIOGRAPHY OF CHILDREN" has always been a difficult one. There are many ways of improving our work and Mr. Leslie J. Cartwright, R.T., C.S.R.T. of Toronto has all the answers. If you are called upon to work with children, we highly recommend this course as one of great value in the improvement of your techniques. If you have any unusual problems Mr. Cartwright will help you find the answers.

We consider it a great privilege to again present Mr. Arthur W. Fuchs of Rochester, New York. His course on "PRINCIPLES OF RADIOGRAPHIC EXPOSURE" will explain in detail the influence of exposure factors in the production of the radiographic image. Mr. Fuchs has had many years experience in the field of x-ray, and we proudly include him in the 1953 Refresher Course staff.

Mr. Richard A. Olden, R.T., A.S.X.T. of Baltimore, Maryland, has in his "COURSE FOR INSTRUCTORS IN X-RAY DEPARTMENTS" a fund of information which is of inestimable value to those who are called upon to serve as instructors. If you desire to improve your teaching standards, we urge you to enroll in this course and avail yourself of the opportunity for improvement and advancement in this important field.

The "GASTRO-INTESTINAL TRACT" is a broad subject and one which constantly calls for new techniques. Mr. Edward F. Foegelle, R.T., A.S.X.T. of Temple, Texas, will again present his comprehensive course on this subject. Mr. Foegelle covers every phase of the gastro-intestinal tract and is well qualified to answer questions and solve problems. We recommend this course to anyone desiring to improve his technique in this broad and interesting field.

"BONE RADIOGRAPHY OF THE ENTIRE SKELETON" which has been so ably presented the past two years by Mr. Howard W. McIntyre, R.T., A.S.X.T. of Philadelphia, Pennsylvania, will again be placed on the curriculum. Positioning is demonstrated and all new positions known to date will be discussed. There is always something new in this broad field and Mr. McIntyre has all the answers. If you have a desire to improve your methods in this ever widening field, we recommend this course as of inestimable value.

This brief outline of the courses to be presented next summer in Toronto will give you

an opportunity to evaluate them and decide which course you refer. We urge you to specify a first and a second choice as the size of the classes will be limited. Reservation blanks will appear in an early issue of *The Focal Spot* and in the January issue of *The X-Ray Technician*. Be ready to send in your reservation as soon as the blank is published. Applications will be honored in the order in which they are received.

The classes will again ocupy two hours, with a five minute intermission at the end of the first hour. In order to have credit for perfect attendance, promptness is a MUST. This requirement will be strictly enforced. With the two hour period there will only be opportunity for you to participate in one course, so study the outline carefully and make your decision early in order not to be disappointed. Classes will be held on Monday, Tuesday, Wednesday, and Thursday from 8.00 a.m. to 10.00 a.m.

The cost of each course will be $5.00 and this includes the booklet to be used in the class in which you are registered.

The Refresher Course Committee has spent much time in the preparation of this interesting and varied program under a most competent staff of instructors. Don't miss this opportunity for advancement and improvement in your chosen profession.

—MARY E. ADKINS, R.T.,
Co-ordinator.

Essay Rules and Regulations

Through the generosity of several medical associations in Canada, the Canadian Society of Radiological Technicians will offer awards to its members for scientific papers to be presented in Toronto at the joint meeting with the American Society of X-Ray Technicians. The following rules shall apply:

1. PRIZES

First award shall be $150.00; second, $100.00 and third, $50.00.

2. ELIGIBILITY

(a) Only members of the Canadian Society of Radiological Technicians in good standing at the time of submitting the manuscript and whose names are listed in the current roster of the Society shall be eligible to compete for the awards.

(b) The following officers and committee members may not participate in the competition: President, Vice-President, Secretary-Treasurer, members of the Board of Directors, Judges, Program Committee Chairman, author of Memorial Lecture, members employed by commercial firms engaged in the manufacture of x-ray films and machines.

3. JUDGING

(a) Each contestant shall submit four copies of his manuscript to the Program Chairman on or before February 1st, 1953. The first original copy shall be submitted as indicated in 4 (a) and, as this shall be the copy forwarded to the final judges, there will be no corrections made.

(b) The Program Committee shall select the ten best Canadian manuscripts and shall forward these to the President of the Canadian Radiological Advisory Committee who will, with his committee, make the final decision in selecting the winners.

4. MANUSCRIPTS

(a) All papers submitted for award consideration must be original compositions, not previously presented, published or being considered for presentation or publication prior to this convention.

(b) Reading time shall be strictly limited to twenty minutes. This time shall include showing of films, slides, et cetera, if needed for demonstration. All essays shall be of sufficient minimum length to be deserving of the title of an acceptable manuscript.

(c) All essays shall be prepared in acceptable manuscript style on a good grade of bond paper, typewritten, double spaced, with wide margins, using one side of the paper only. The pages are to be numbered.

(d) Each contestant shall submit four copies (two originals and two carbons). The first

original shall have a cover sheet giving the title only and it shall contain no marks of identification which present a clue as to the author or the department in which the author works. The remaining copies of the manuscript shall have a cover sheet giving the title of the paper, name and complete address of the author, date of membership in the Canadian Society of Radiological Technicians, and the statement that the contest regulations have been read by the contestant.

(e) Each copy of the manuscript shall be securely fastened together in the left hand margin within a suitable cardboard folder cover.

(f) All papers submitted will become the property of the Canadian Society of Radiological Technicians.

5. ILLUSTRATIONS

(a) All illustrations must accompany the manuscript. They may not be sent separately or at a later date.

(b) All illustrations must be marked with figure indications that correspond to the information contained in the body of the manuscript and they must be accompanied by a suitable legend. They should be incorporated into the manuscript in proper sequence or on separate sheets following the manuscript proper, but within the same folder.

(c) Two sets of illustrations shall be required, one to accompany the original manuscript submitted to the final judges and another set for the copy of the manuscript to be retained by the Society.

(d) All illustrations shall be of a black and white glossy type, suitable for publication.

(e) When making glossy prints of x-ray films, it is essential to block out the name of the institution or radiologist and any other marks which might lead to identification of the author.

(f) Slides should be prepared of all illustrations for demonstration at the time the paper is presented on the convention program.

6. PRESENTATION

(a) The authors of the winning essays will be notified in time to permit them to make arrangements to present their papers during the convention. Notification will also be given to those contestants whose papers do not win award recognition.

(b) In the event the winning author or authors for and because of unavoidable circumstances cannot be present to give the essay or essays in person, the essay may be read by another member of the Society.

(c) The essay awarded first prize shall be published in the first issue of *The Focal Spot*; second in the second issue and the third in the third issue following the convention.

The officers and Board of Directors of the Canadian Society of Radiological Technicians shall assume full responsibility for handling and detailing the mechanics of the awards.

Scientific Program

The Canadian and American Societies will each offer awards for the best papers submitted for the scientific program at Toronto next June. American authors can qualify for the N.E.M.A. awards; Canadian writers are eligible for the Canadian essay awards.

Please observe the rules for the preparation of your paper and remember these dates:

December 15th, 1952—Title and abstract must be submitted to the Program Chairman.

February 1st, 1953 — Deadline for submission of completed manuscript.

—EMMA E. SMITH, R.T.,
Chairman,
Program Committee.

"Keeping in Touch"

Conducted by the Editor

ARCHER, MISS J. Moved from Delisle, Sask., to Maple Creek Hospital, Sask.

BROWN, MEL., has left x-ray service work to become an Instructor with Saskatchewan Government Training Course.

CATHCART, DONNA GENE, from Misericordia Hospital, Winnipeg, to Regina General Hospital.

COURCHENE, CORA. From Hollenberg Clinic, Winnipeg, to New Westminster, B.C.

CREED, ANN. From St. Paul's Hospital, Saskatoon, to Union Hospital, Nipawin, Sask.

DEBONNAIRE, GEORGE. Kelley-Koett service man, has moved from Halifax to Winnipeg.

DELORME, AUDREY. From Dr. Roy P. Brown's office, Winnipeg, to Vancouver.

DREISINGER, FRANK. From Strong Memorial Hospital, Rochester, N.Y., to General Electric Co., Milwaukee, where he is Manager, Technical Services.

DRINKWATER, MISS M. (now Mrs. J. E. White). From King Edward Hospital, Winnipeg, to Brandon, Man.

EDSTROM, EMILY. From Glace Bay, N.S., to Dr. Wallace Roy's office, Medical Arts Building, Halifax, N.S.

ELKIN, MR. P. R. From Sanitorium Board of Manitoba to Hamiota Hospital.

FLEMING, SURGEON-COMMANDER JOHN. From R.C.N.V.R., Halifax, to H.M.C.S. "Nadeau," Esquimalt, B.C.

FOX, ROSALIE. From Mount Carmel Clinic, Manitoba, to office of Drs. Gutman, Lerner and Rossen, Winnipeg.

HAMILTON, PATRICIA. From Misericordia Hospital, Winnipeg, to office of Drs. Wheeler, McCulloch and Stuart, Winnipeg.

HAUSER, MISS W. From Moose Jaw General Hospital to Union Hospital, Swift Current, Sask.

HAY, MISS D. V. From Swift Current to Veterans' Hospital, Victoria, B.C.

LACEY, MRS. MARIE. From T.B. X-Ray, General Hospital, Edmonton, to Suite 3, 4515 Grand Blvd., Montreal.

McDOUGAL, MISS K. From Toronto to Grey Nuns' Hospital, Regina.

McDOUGAL, MR. W. L. From Sanitorium Board of Manitoba to Langenberg Union Hospital, Sask.

McLEAN, CATHY. From Ottawa Civic Hosital (D.V.A.) to Hospital for Sick Children, Toronto.

NORBERY (now Mrs. Wm. Birtle). Misericordia Hospital, Winnipeg, to King Edward Hospital, Winnipeg.

O'SULLIVAN, GERTRUDE. From St. Joseph's Hospital, Saint John, N.B., and James Dunn Memorial Hospital, Bathurst, N.B., to Halifax Infirmary.

OLSON, MARGARET. From Grace Hospital, Winnipeg, to Norway House, Man.

PALMER, MARGARET. From Winnipeg Clinic to Hamilton.

PRUGI, MISS ANNE. From Ontario to Medical Clinic, Vancouver.

ROGERS, LORENE (now Mrs. McCready). From B.C. Cancer Institute to Edmonton.

STELEY, JANET. From Regina to Drs. Macpherson and Childe, Winnipeg.

STOCK, JOAN. From Peterborough, Ont., to Parry Sound Hospital, Ont.

TILLEY, MISS RAY. From England and South Africa to Burnaby Hospital, Vancouver.

WHEELER, MARION. From Children's Memorial Hospital, Montreal, to Tadanac Hospital, Trail, B.C.

OTTI, SAMMY. From British West Africa to General Hospital, Cincinnati, to Sunnybrook Memorial Hospital, Toronto.

KAY, ROBERT. From Western Hospital, Toronto, to General Marine Hospital, Owen Sound, Ont.

TRAVIS, R. K. From Wellesley Hospital, Toronto, to General Hospital, Kingston, Ont.

NEWS ITEMS FROM THE PROVINCES

Ontario - from p. 159

privilege to vote as you like, but vote. With your interest and co-operation, your Society can be the organization you would like it to be.

The death of Frank G. Cunningham on September 24th came as a great shock to his many friends and associates throughout Ontario. Although only in his early fifties at the time of his death, Frank was one of the first x-ray engineers in Ontario. In the 1920 period while with the Burke X-Ray and Electric Co., he put in many x-ray installations. During the second war he was a captain with the Central Medical Depot. Since then he continued his work with X-Ray and Radium Industries Ltd. Our deepest sympathy, coupled with a sense of deep personal loss, goes to his widow and children.

Dec. 31st Deadline for Canadians with U.S. Certification

The Executive wishes to impress on Canadians who at present hold only U.S. R.T. registration that they must apply to the Secretary before December 31st, 1952, in order to obtain Canadian registration without further examination.

—A. J. STECHYSHYN, R.T.,
Sub-Editor.

NEWS ITEMS FROM THE PROVINCES

EASTERN SECTION

What proved to be one of the most successful meetings held in Brockville by the Eastern Section was held on Saturday, June 21st, at 3.15 p.m. at the Nurses' Residence of the Brockville General Hospital under the chairmanship of Mr. H. A. Clarke.

An excellent paper, "The Use of Radioactive Isotopes in Biology and Medicine," was presented by Dr. David Berger of Brockville General Hospital. This paper was both appealing and educational and was greatly appreciated by all present. Dr. Berger also demonstrated in a very gracious manner his interest in and his desire to give assistance to the members of our Society at any time.

Mr. R. K. Travis, Technical Advisor, X-Ray Department, Kingston General Hospital, gave a very practical demonstration of the advantages of the use of non-screen films when x-raying the extremities, using a high kilovoltage technique. Many excellent films were shown in order to illustrate the speaker's point.

A resume of the meeting of the American Society of X-Ray Technicians, held in Chicago in May 1952, was very ably brought to us by Mr. Ken Hall of the Ottawa Civic Hospital. Many interesting and helpful ideas were presented to his audience for our guidance in planning our own Convention this October.

Owing to the length of our meeting, an adjournment was made for some very excellent refreshments served in the Lounge of the Nurses' Residence. Dr. Berger, Miss McAvoy and nurses of the hospital staff kept everyone well supplied with eats while Miss Preston, Director of Nurses, graciously poured tea for us. We were most appreciative of the kindness and co-operation shown us by the hospital staff at this, our first meeting at the Brockville General.

Following our repast we retired for the business section of our meeting. Owing to the absence of the secretary-treasurer, Miss A. Geldert read the minutes of the last meeting. They were passed on motion moved by Miss M. Cleveland and seconded by Sister MacPherson. The financial statement was also read and approved on a motion from Miss M. Bolster and seconded by Miss M. McAvoy.

In conclusion, it might be mentioned that of the 25 members present at this gathering, it was very gratifying to see so many Sister technicians in attendance.

—MARY B. MENZIES, R.N., R.T.,
Secretary-Treasurer.

17th ANNUAL CONVENTION

The 17th Annual Convention of the Ontario Society of Radiographers started bright and early at 8 a.m. on Friday, October 17th. Due to this early start many out-of-town members had arrived at the Chateau Laurier the previous evening. Following registration the first item on the program was at 8.30 a.m. when Mr. Leslie Cartwright, of the Hospital for Sick Children, Toronto gave the first section of a two-day Refresher Course on "Radiography of Children." At 10 o'clock the regular technical session opened under the chairmanship of Miss Marguerite Bolster, the first speaker being Mr. Vaughn P. Russell, Stratford General Hospital, whose subject was "Essential Accessories." Mr. Russell dealt trenchantly with the value of cones, grids, masks and lead diaphragms as aids towards improving the quality of radiographs.

The next speaker was Mr. L. C. Stewart of the Central X-Ray Film Library, Department of Veterans' Affairs, Ottawa. While Mr. Stewart is not a radiographer, his work is closely allied to ours and his department employs eleven people and has 20 million films in the Army records. There are 50 million films on file in the combined Army, Navy and Air Force branches. Dealing with this huge quantity of radiographs, the speaker was well qualified to point out the difficulties caused his department by careless and inadequate marking on the part of some hospitals and clinics. Some of the examples shown had numerals inverted or backwards, blanks which represented certain out-of-stock numerals known to those concerned and to no one else; markers fading out on clear film and burnt out on exposed sections, 2's representing 5's and 4's made up of 7's and 1's and so on. Insufficient identification of hospitals was another fault. Mr. Stewart pointed out that there were, for instance, nearly forty hospitals called "St. Joseph's" and many did not add the location to the hospital name on the marker. His plea for standardization of markers should be heeded by x-ray departments and by individual technicians.

The morning session was concluded with a paper on Placentography by Sister E. McPherson, Hotel Dieu Hospital, Kingston, who described the technic of using for filtration a

14 x 17 plate of heavy aluminum tapering in thickness and placed over the film. Sister McPherson illustrated her talk with radiographs taken using the filter.

At 12.15 the Convention Luncheon was held in the Quebec Suite, about 75 members being present. The Invocation was given by Rev. A. L. Griffith. The Chairman, Mr. Ken Hall, then introduced Mayor Charlotte Whitton, who was to officially open the Convention. Her Worship, however, went far beyond the usual formal routine of welcome and declaring open, and, with a characteristically colorful speech delivered in the forceful style which has made her famous, did not disappoint her audience in their expectation of something different. The Guest Speaker for the luncheon was Mr. J. P. Wallace, Department of National Health and Welfare, Ottawa. His topic was more particularly that of Civil Defence and he spoke of the plans made for Civil Defence in the event of atomic attack, and impressed on his hearers the need for the widespread adoption of these methods in minimizing suffering.

The afternoon session started at 2 p.m.—Mr. Herbert A. Clarke being Chairman—with a unique demonstration of the Picker "Polaroid" Unit by Mr. Jack Foreman of the Picker X-Ray Corporation of Canada, Ltd., Ottawa. This little machine, measuring approximately 24 inches square and a few inches in height, produces a dry paper positive in a minute or less. A black paper envelope containing the negative paper with the positive paper hinged to it at one end and folded behind a sheet of protective metal, is placed in a special type of cassette and exposed to x-rays in the usual manner. The cassette is then placed in the developing cabinet and pressure released by a spring on the back of the cassette. The black light-proof envelope is withdrawn and the positive and negative papers (which have "seed pods" containing a chemical jelly between the fold or hinge) pass through rollers which distribute the jelly over the surface of the two papers and in a few seconds a buzzer sounds and the paper positive can be pulled out dry and ready for examination. Mr. Foreman stated that at the present time the entire output is going to the U.S. armed forces and it certainly should be most useful for advanced field work and probably eventually for civilian operating room work.

The next paper was by Miss Amy Adams, Ottawa Civic Hospital, on the subject "The Patient and the Technician" and should inspire a more sympathetic handling of the sick by technicians.

The session concluded with "Cholangiography" by Mr. Anthony Stechyshyn, St. Catharines General Hospital. Our genial President-elect gave a very informative paper on a subject which is seldom dealt with—the radiographic demonstration of the bile ducts by means of an opaque medium, illustrated by diagrams and radiographs.

At 3.30 a large group walked over to the Parliament Buildings for a conducted tour of this famous edifice, which proved intensely interesting. We visited the Commons, the Senate Chamber, the Library and ascended to the beautiful Memorial Chamber and to the observation gallery at the base of the clock. The intricate symbolic carvings in wood and stone seen on every hand created great interest and admiration.

In the evening we were shown three particularly interesting movies with sound and color. "The Loon's Necklace" is a very beautifully conceived film based on the Indian legend of how the loon obtained his white bead-like neckband, with a little spilling over on to the feathers. Most of the action was obtained with the use of grotesque Indian totem-pole-like masks and modernist painted backdrops, coupled with dramatic lighting effects. "Newfoundland Scene" portrayed the various aspects of the life of these hardy newcomers to our Dominion family—deep sea fishing, whaling, sealing, canning, the doctor with his dog team —including a remarkable unrehearsed dog fight. "Royal Tour—Navy Version" gave an excellent viewing of the recent tour of their Royal Highnesses across Canada and back. All three films were produced by Imperial Oil Ltd. The evening concluded with a very tasty three course hot supper.

SATURDAY, OCTOBER 18th

Again registration (which reached around the hundred mark) started at 8 a.m. and from 8.30 till 10 the second part of the Refresher Course on Pediatric Radiography was given by Mr. L. J. Cartwright. The technical session started at 10 o'clock with Mr. Tony Stechyshyn in the Chair. Miss V. Lorraine Crampton, Sunnybrook Memorial Hospital, Toronto, presented "Radiography of the Paransal Sinuses" in a very effective manner, accompanied by excellent

radiographs and diagrams. Miss Crampton advocated positioning by means of anatomical landmarks and palpation points rather than by the use of fixed angles. Mr. Don C. Fiske, Queen Mary Veterans' Hospital, Montreal, followed with a talk on "The Technician's Responsibilities." He stressed the necessity for obtaining confidence—the confidence of the radiologist and of the patient, and the value of the formation of a satisfactory "habit-pattern" in one's work. Next came Mr. David Sage, McGregor Clinic, Hamilton, who gave the paper which won the First NEMA Prize at the recent Chicago ASXT Convention—"Radiography of the Lumbar Spine." As this paper is published in this issue of *The Focal Spot* further description in this report is unnecessary. The final paper of the morning session was "The Use of Radioisotopes in Medicine and Industry." This was to have been given by Mr. C. Garrett, National Research Council, Ottawa, but as he was unable to be present the subject was very ably presented by Dr. W. S. Michell. The speaker pointed out that the Chalk River plant has been designed especially for medical and industrial purposes as distinct from the defence research of Oak Ridges. He gave some interesting examples of the uses of radioisotopes beyond the medical uses of which we had already heard. They could be placed in lakes to see how much went to the vegetable life, the plants being tested for radioactivity. Mosquitoes and birds could also be tested. Survey stakes, which might disappear below the ground or in undergrowth, could be located if rendered radioactive. Obstructions in pipelines could be located. A component of an alloy could be activated and studied. Mechanical parts subject to wear, such as piston rings, could be rendered radioactive and metalic deposits detected in the oil, and so forth. This talk brought the morning to an interesting close.

At 2 p.m. a Question Panel was conducted. This group consisted of Dr. T. G. Stoddard, Ottawa Civic Hospital; Dr. J. D. Roger, Metcalfe Clinic; and Dr. E. J. Lehman, Royal Ottawa Sanatorium, with Mr. Ken Hall as Chairman. The questions came in so plentifully that the Panel continued over the allotted time, which was a healthy sign. At the conclusion of this period Dr. Jean Pierre Jean, St. Joseph's Sanatorium, Rosemount, P.Q., discussed "Direct Magnification of Radiological Images" by arrangement with Phillips Industries Ltd., Montreal. The doctor gave a very lucid description of the principles and technic of the new ultra-fine focus tube, illustrated with some excellent radiographs "blown-up" by this means. The afternoon concluded with a talk on "The Cobalt 60 Beam Therapy Unit" by Mr. Heatherington, Atomic Energy of Canada Ltd., Ottawa. The small size of the radioactive unit —only 2 inches long, was surprising. This is encased in a very thick protective envelope and the radiation is sealed in, when not in use, by means of a "U"-shaped column of mercury, which drops in by gravity and is forced out of position by compressed air when radiation is to be applied. No filters are used and its half-life is 5.3 years. The speaker decried the popular use of the term Cobalt "bomb"—the correct title is "Cobalt 60 Beam Therapy."

At 6 o'clock cocktails were served in the Quebec Suite, our hosts being the Ottawa radiologists and at 7 we moved into the adjoining room for the Annual Dinner. At the head table, in addition to the officers of the Society, were Wing Commander J. A. Sifton, Radiologist, R.C.A.F. Hospital, Rockcliffe, and Mrs. Sifton, and Dr. T. G. Stoddart, Radiologist, Ottawa Civic Hospital, and Mrs. Stoddart. Before starting the meal, Mr. David Sage, President, asked all to rise for a short period of silence as we honoured the memories of three departed members—Mr. Percy Ghent, Mr. Frank Cunningham and Mr. H. O. Mahoney. After the dinner Dr. Stoddart presented the prizes to the four winners in the film exhibit competition. First Prize, Mr. B. Kisiel, Ottawa Civic Hospital; Second Prize, Miss Lorraine Crampton, Sunnybrook Memorial Hospital, Toronto; Third Prize, Sister E. MacPherson, Hotel Dieu, Kingston; Fourth Prize, Sister Angele de Jesus, General Hospital, Ottawa. These had previously been judged by a committee of three—Dr. K. E. Matziner, Ottawa Civic Hospital; Mr. Don Fisk, Montreal; and Mr. L. J. Cartwright, Toronto.

Dr. Siften then showed a number of very beautiful color slides taken in South America, Mrs. Sifton acting as projectionist. The doctor's description of their trip to Brazil and across to Peru made a fascinating tale. Next a floor show was put on with Mr. C. E. Evans making an inimitable M.C. and Sonny Morin and Johnny Guindon at the piano and doing trick tap dancing bringing down the house. Clem Grenier sang some songs of the blues type which

concluded on p. 206

NEW GE 14 x 17 PERMACON CASSETTE ENDS BIG CAUSE OF FUZZY RADIOGRAPHS

Warp-proof MAGNESIUM front insures perfect, permanent contact

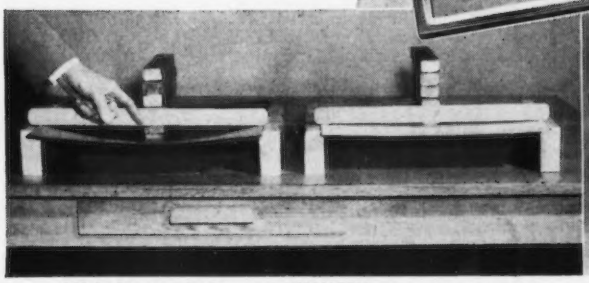
If you've ever been plagued by unsatisfactory radiographs on hot, humid days — GE's new Permacon cassette is just what you need. By replacing the bakelite front with magnesium, GE has provided permanent contact for 14 by 17 inch films.

For magnesium is six times stronger than bakelite. More — it's not affected by heat or moisture. In other words, it's warp-proof!

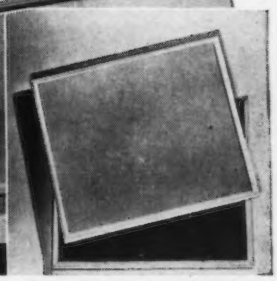
Equally important, magnesium's opacity to x-rays is practically the same as bakelite's. No changes in exposure factors are necessary. And here's good news — the new Permacon cassette costs only one dollar more than the bakelite-front Steleweld.

Have your GE x-ray representative demonstrate the superiority of Permacon cassettes to you. Phone or write the nearest office of General Electric X-Ray Corporation, Limited — Montreal, Toronto, Vancouver, Winnipeg.

GENERAL ELECTRIC



Added advantage! Another reason PERMACON assures permanent contact: Note the effect of a 24-pound weight on 14 x 17 inch sheets of bakelite (left) and magnesium. The bakelite gives — and the magnesium holds!



Contrast between silver-gray PERMACON and glossy black Steleweld makes darkroom identification easy.

Ont. - from p. 204
went over in a big way, especially when a certain embarrassed but smiling technician named George was called up to be made love to vocally.

This concluded another very successful convention. However, on Sunday morning, before leaving Ottawa, a number of technicians availed themselves of Dr. Stoddard's kind invitation to visit the Ottawa Civic Hospital X-Ray Department and the new Cancer Clinic, a visit which proved well worth while.

By L. J. CARTWRIGHT, R.T.

QUEBEC SOCIETY OF X-RAY TECHNICIANS

A general meeting of the Quebec Society was held Saturday afternoon, Sept. 27th, at the Women's Pavilion of the Royal Victoria Hospital. We were all delighted at such a large attendance for our first meeting of the season, especially as it was a beautiful fall day and within a block of our meeting the first Intercollegiate football game of the season was being played.

Mr. Meadus, our new President, gave us a glowing account of the convention in Calgary, making us envious that we were all not able to attend. Miss Germaine Perry gave a translation of Mr. Meadus' report to our French members.

Dr. Carleton B. Pierce presented certificates to ten successful students who wrote their examinations last May. We are glad to welcome these new members into our society.

Miss Lucie Brien, Shriner's Hospital, Cedar Ave., Montreal.

Miss Jeannine Cotnair, St. Jean de Dieu Hospital, Montreal.

Miss Olive Pelletier, Anti-Tuberculosis League, City Hall Street, Montreal.

Miss Yolande Raymond, Notre Dame Hospital, Montreal.

Miss Madeleine Therrien, Radium Institute, Montreal.

Mr. Henri Poitras, Hopital de L'Enfant Jesus, Quebec City, Quebec.

Miss Marie Jeanne Yergeau, St. Mary's Hospital, Montreal.

Sister St. Jean, Hotel-Dieu, St. Jerome, P.Q.

Sister Marie Stephanie, Notre-Dame de L'Esperance Hosp., Ville St. Laurent, Quebec.

Sister Marie Alexandre, St. Redempteur Hospital, Matane, Que.

After a short business meeting a delightful tea was served in the Ross Memorial Pavilion.

Our sincere sympathy to Donalda Campbell on the less of her father in June.

Our sincere sympathy to Mrs. Percy Ghent and family on the death of her husband.

Marion Wheeler, who has been in charge of the X-Ray Department at the Children's Memorial Hospital, has accepted a position in Trail, B.C.

Congratulations to Sister Michel des Saints of St. Joseph's Hospital, Three Rivers, who has been nominated for the Executive Committee of the American Society.

Wedding bells have been ringing in Montreal —Catherine Mundy on the staff of the Queen Elizabeth Hospital was married to Al. Donaldson in August and Verna Petrie of the Montreal General Hospital (Western Division) was married to Burk Musgrove in September.

—EDWINA BOA, R.T.,
Sub-Editor.

ELEVENTH CONVENTION DINNER, QUEBEC

LA SOCIETE DES TECHNICIANS EN R.X. DE LA PROVINCE DE QUEBEC

Il nous fait plaisir d'offrir nos meilleurs voeux de bonheur à Mlle Marguerite Deschamps, R.T., de la Clinique du thorax de l'Hôtel-dieu de Montréal, à l'occasion de son mariage le 5 juillet, avec M. Théodore Bouchard.

A l'inauguration officielle du Département de radiologie et de Thérapie de l'Hôpital Reddy Memorial de Montréal, la Société des Techniciens était représentée par le Président M. Meadus, et Mlles Campbell, Violette, Archambault, O'Hagan et Muirhead. Cette gracieuse invitation de la part du Président de l'Hôpital M. l'Honorable W. Bovey et du Dr Jean Pierre Jean fut très appréciée et le bel hommage public rendu au personnel technique fut très sensible au coeur des Techniciens. Merci Colonel Bovey, merci Dr Jean! Un délicieux goûter fut servi au Salon des Infirmières.

Nos sincères condoléances à Mlle Donalda Campbell, Vice-Présidente de la Société Canadienne des Techniciens en Radiologie, à l'occasion de la mort de son Père, décédé le 20 juin. Au service funèbre assistaient les Membres du Comité Exécutif des Techniciens du Québec, Mlles Archambault et Violette et M. Cheffins, la Vice-Présidente actuelle Mlle Perry, la Secretaire Mlle Campagna et la Régistraire Mlle Blain ainsi que Mlles Muirhead et O'Hagan.

Félicitations au Dr Paul Brodeur, radiologiste en Chef de l'Hôpital Notre-Dame pour sa nomination comme Professeur agrégé de l'Université de Montréal.

Félicitations au Dr Jean Michon, radiologiste de l'Hôpital Notre-Dame de Montréal, de retour d'un voyage d'études à Londres avec le titre de D.M.R.T.

Les vacances sont arrivées, c'est la fièvre annuelle si agréables, à tour de Bonnes et belles vacances!

Le 27 septembre dernier avait lieu la première assemblée régulière de l'année à l'Hôpital Royal Victoria, à la division "Women's Pavillon." Soixante membres étaient présents.

La plus cordiale bienvenue nous fut souhaitée par le Dr Carlton P. Pierce, radiologiste en Chef, qui s-exprima dans un français magnifique.

M. Meadus, président, lut le rapport de la Convention de Calgary, en anglais et Mlle Perry, vice-Présidente en fit la traduction.

La distribution des certificats aux heureux candidats de mai dernier fut faite par le Dr Pierce, qui remplaça le Dr Brooks, actuellement hospitalisé. Un délicieux goûter fut servi. Nous remercions chaleureusement le Dr Pierce, M. Simkins, Mlle Harris et tous les techniciens du Royal Victoria pour leur cordial accueil.

Nos voeux de prompt rétablissement au Dr C. E. Brooks, notre Président Honoraire, nous espérons sincèrement qu'il soit des nôtres à la prochaine assemblée.

Nos félicitations à la Révérende Sr St-Michel des Saints, des Trois-rivières, pour sa récente nomination au poste de 3ième Vice-Présidente de la Société des Techniciens en Rayons-X des Etats-Unis.

Au début de septembre, tout comme l'an passé, le Dr C. A. Langlois, radiologiste à l'Hôtel-Dieu invita à son beau domaine de Vaudreuil, les techniciennes de l'Hôpital ainsi que quelques membres du Conseil Exécutif des Techniciens en R.-X. pour une partie de blé dinde. Tous sont revenus enchantés et remercient sincèrement Mme Langlois, si charmante à les inviter spontanément à revenir l'an prochain, donc nous disons au revoir Dr Charles et Mme Langlois ce sera avec plaisir.

Ces jours derniers nous avions le plaisir de recevoir la visite de la Révérende Sr Carrier, Hospitalière en Charge du Service de Radiologie à l'Hôpital d'Arthabaska, durant son séjour à Montréal elle a accepté l'invitation de Mlle Perry à visiter le Service de Radiologie de l'Hôpital Reddy Memorial. Le Dr Jean Pierre Jean, directeur du Service de radiologie et de thérapie fit les honneurs de son département. Sr Carrier nous quitta enchantée de l'accueil chaleureux de tous et chacun.

Nous souhaitons une heureuse convalescence à Mlle Rose Campagna, notre dévouée secretaire de la Société des Techniciens en R.X. du Québec, qui fut hospitalisée à l'Hôpital Notre-Dame.

Nous offrons nos plus sincères condoléances à Mme Percy Ghent, de Toronto à l'occasion de la disparition subite de son mari, l'éditeur des nouvelles de la C.I.L.

—ALICE PAQUIN, R.T.,
Rédactrice-Adjointe.

SASKATCHEWAN DIVISION C.S.R.T.

A meeting of the old and new executives of the Saskatchewan Division of the C.S.R.T. was held in the Radiological Department of the Grey Nuns' Hospital on Friday evening, July 25th, 1952, with Sister Rosaire presiding.

The Constitution and By-laws of the Provincial group were thoroughly gone into with the proposed changes being brought to the attention of a Commitee set up for the purpose of bringing the constitution up to date, and later on to be put to the next Annual General Meeting for consideration.

The proposed resolution to be submitted to the C.S.R.T. meeting at Calgary was also discussed for the benefit of the official delegate who will attend that meeting.

The first of the Saskatchewan Division Executive Meetings, which are to be held monthly, was held in Moose Jaw, Sept. 30th at the Providence Hospital.

Conducted by Rev. Sr. M. Rosaire, the meeting was very successful in that all matters demanding executive attention were quickly dealt with and yet capably handled—a much more efficient method than one entirely dependent upon correspondence.

The first meeting of the Southern portion of the Saskatchewan Division will be held in Regina Oct. 16th. Election of officers and winter program will be main business of the meeting.

Here and There:

Mr. and Mrs. J. Dowie, Regina, became proud parents of a baby girl this August. Mrs. Dowie formerly hailed form the X-Ray Department, Grey Nuns Hospital, Regina.

Miss W. Hauser, who received her training at the Moose Jaw General Hospital, has recently taken a position at the radiological staff of the Union Hospital, Swift Current, Sask.

Miss K. McDougal, recently returned from Toronto, is now a member of the staff of the X-Ray Department, Grey Nuns Hospital.

Mel Brown, formerly with one of the service companies, is now employed by the Saskatchewan Provincial Government

Miss J. Archer of Delisle, Sask., has left to take a position in the Maple Creek Hospital, Maple Creek, Sask.

Miss D. V. Hay of Swift Current has joined the x-ray staff in the Veterans' Hospital at Victoria, B.C

Miss Ann Creed of St. Paul's Hospital, Saskatoon, has left to take on new duties in the Union Hospital at Nipawin, Sask.

It is good to see Ken Newell home again and getting around a bit. We hope Ken will soon be able to be out and attending everything again.

Congratulations to the following successful candidates in the May C.S.R.T. examinations:

Miss E. Bourvier, Miss Alice Armstrong, Miss Dorothy Hay, Miss K. Keenan, Mrs. J. Mulder, Miss M. Staciw, Miss R. Strange, Mr. W. Weir.

—C. L. JOHNSON, R.T.,
Sub-Editor.

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NOTE. Index to Vol. 9 will appear in next issue.

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